

OpenWrt Development Guide

This document describes the development process for OpenWrt. It covers the build system, the package management system, and the various tools and utilities used in the development process.

OpenWrt Development Environment

OpenWrt development is done in a collection of tools and utilities, which are described in this section. The tools and utilities are: `git`, `gcc`, `glibc`, `binutils`, `libtool`, `make`, `pkgconf`, `libltdl`, `libffi`, `libpthread`, `libc`, `libm`, `libz`, `libssl`, `libcrypto`, `libcurl`, `libexpat`, `libxml2`, `libxslt`, `libxslt1-pro`, `libxslt1-dev`, `libxslt1-doc`, `libxslt1-data`, `libxslt1-bin`, `libxslt1-l10n`, `libxslt1-gui`, `libxslt1-gui-gtk`, `libxslt1-gui-gtk2`, `libxslt1-gui-gtk3`, `libxslt1-gui-gtk4`, `libxslt1-gui-gtk5`, `libxslt1-gui-gtk6`, `libxslt1-gui-gtk7`, `libxslt1-gui-gtk8`, `libxslt1-gui-gtk9`, `libxslt1-gui-gtk10`, `libxslt1-gui-gtk11`, `libxslt1-gui-gtk12`, `libxslt1-gui-gtk13`, `libxslt1-gui-gtk14`, `libxslt1-gui-gtk15`, `libxslt1-gui-gtk16`, `libxslt1-gui-gtk17`, `libxslt1-gui-gtk18`, `libxslt1-gui-gtk19`, `libxslt1-gui-gtk20`, `libxslt1-gui-gtk21`, `libxslt1-gui-gtk22`, `libxslt1-gui-gtk23`, `libxslt1-gui-gtk24`, `libxslt1-gui-gtk25`, `libxslt1-gui-gtk26`, `libxslt1-gui-gtk27`, `libxslt1-gui-gtk28`, `libxslt1-gui-gtk29`, `libxslt1-gui-gtk30`, `libxslt1-gui-gtk31`, `libxslt1-gui-gtk32`, `libxslt1-gui-gtk33`, `libxslt1-gui-gtk34`, `libxslt1-gui-gtk35`, `libxslt1-gui-gtk36`, `libxslt1-gui-gtk37`, `libxslt1-gui-gtk38`, `libxslt1-gui-gtk39`, `libxslt1-gui-gtk40`, `libxslt1-gui-gtk41`, `libxslt1-gui-gtk42`, `libxslt1-gui-gtk43`, `libxslt1-gui-gtk44`, `libxslt1-gui-gtk45`, `libxslt1-gui-gtk46`, `libxslt1-gui-gtk47`, `libxslt1-gui-gtk48`, `libxslt1-gui-gtk49`, `libxslt1-gui-gtk50`, `libxslt1-gui-gtk51`, `libxslt1-gui-gtk52`, `libxslt1-gui-gtk53`, `libxslt1-gui-gtk54`, `libxslt1-gui-gtk55`, `libxslt1-gui-gtk56`, `libxslt1-gui-gtk57`, `libxslt1-gui-gtk58`, `libxslt1-gui-gtk59`, `libxslt1-gui-gtk60`, `libxslt1-gui-gtk61`, `libxslt1-gui-gtk62`, `libxslt1-gui-gtk63`, `libxslt1-gui-gtk64`, `libxslt1-gui-gtk65`, `libxslt1-gui-gtk66`, `libxslt1-gui-gtk67`, `libxslt1-gui-gtk68`, `libxslt1-gui-gtk69`, `libxslt1-gui-gtk70`, `libxslt1-gui-gtk71`, `libxslt1-gui-gtk72`, `libxslt1-gui-gtk73`, `libxslt1-gui-gtk74`, `libxslt1-gui-gtk75`, `libxslt1-gui-gtk76`, `libxslt1-gui-gtk77`, `libxslt1-gui-gtk78`, `libxslt1-gui-gtk79`, `libxslt1-gui-gtk80`, `libxslt1-gui-gtk81`, `libxslt1-gui-gtk82`, `libxslt1-gui-gtk83`, `libxslt1-gui-gtk84`, `libxslt1-gui-gtk85`, `libxslt1-gui-gtk86`, `libxslt1-gui-gtk87`, `libxslt1-gui-gtk88`, `libxslt1-gui-gtk89`, `libxslt1-gui-gtk90`, `libxslt1-gui-gtk91`, `libxslt1-gui-gtk92`, `libxslt1-gui-gtk93`, `libxslt1-gui-gtk94`, `libxslt1-gui-gtk95`, `libxslt1-gui-gtk96`, `libxslt1-gui-gtk97`, `libxslt1-gui-gtk98`, `libxslt1-gui-gtk99`, `libxslt1-gui-gtk100`.



Figure 1: OpenWrt development environment structure as shown in the source directory.

- tools: contains all the development tools used in the programming process.
- libraries: contains all the development libraries used in the programming process, the packages used and the libraries of the development process.
- packages: contains all the development packages used in the programming process.
- scripts: contains all the development scripts used in the programming process.
- utils: contains all the development utilities used in the programming process.
- patches: contains all the development patches used in the programming process.

Openwrt Development Guide

Sun Microsystems



Openwrt Development Guide:

Advanced Information Networking and Applications Leonard Barolli,2023-03-19 Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuators are emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications Several of such applications have been difficult to realize because of many interconnections problems To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks This volume covers the theory design and applications of computer networks distributed computing and information systems The aim of the volume *Advanced Information Networking and Applications* is to provide latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications

Linksys WRT54G Ultimate Hacking Paul Asadoorian,Larry Pesce,2011-04-18 This book will teach the reader how to make the most of their WRT54G series hardware These handy little inexpensive devices can be configured for a near endless amount of networking tasks The reader will learn about the WRT54G s hardware components the different third party firmware available and the differences between them choosing the firmware that is right for you and how to install different third party firmware distributions Never before has this hardware been documented in this amount of detail which includes a wide array of photographs and complete listing of all WRT54G models currently available including the WRTSL54GS Once this foundation is laid the reader will learn how to implement functionality on the WRT54G for fun projects penetration testing various network tasks wireless spectrum analysis and more This title features never before seen hacks using the WRT54G For those who want to make the most out of their WRT54G you can learn how to port code and develop your own software for the OpenWRT operating system Never before seen and documented hacks including wireless spectrum analysis Most comprehensive source for documentation on how to take advantage of advanced features on the inexpensive wrt54g platform Full coverage on embedded device development using the WRT54G and OpenWRT *Kismet Hacking* Frank Thornton,Michael J. Schearer,Brad Haines,2008-08-08 Kismet is the industry standard for examining wireless network traffic and is used by over 250 000 security professionals wireless networking enthusiasts and WarDriving hobbyists Unlike other wireless networking books that have been published in recent years that geared towards Windows users Kismet Hacking is geared to those individuals that use the Linux operating system People who use Linux and want to use wireless tools need to use Kismet Now with the introduction of Kismet NewCore they have a book that will answer all their questions about using

this great tool This book continues in the successful vein of books for wireless users such as WarDriving Drive Detect Defend Wardrive Running Kismet from the BackTrack Live CD Build and Integrate Drones with your Kismet Server Map Your Data with GPSMap KisMap WiGLE and GpsDrive **Intelligent Computing** Kohei Arai,Rahul Bhatia,Supriya Kapoor,2019-07-08 This book presents the proceedings of the Computing Conference 2019 providing a comprehensive collection of chapters focusing on core areas of computing and their real world applications Computing is an extremely broad discipline encompassing a range of specialized fields each focusing on particular areas of technology and types of application and the conference offered pioneering researchers scientists industrial engineers and students from around the globe a platform to share new ideas and development experiences Providing state of the art intelligent methods and techniques for solving real world problems the book inspires further research and technological advances in this important area **Attacking and Exploiting Modern Web Applications** Simone Onofri,Donato Onofri,2023-08-25 Master the art of web exploitation with real world techniques on SAML WordPress IoT ElectronJS and Ethereum smart contracts Purchase of the print or Kindle book includes a free PDF eBook Key Features Learn how to detect vulnerabilities using source code dynamic analysis and decompiling binaries Find and exploit vulnerabilities such as SQL Injection XSS Command Injection RCE and Reentrancy Analyze real world security incidents based on MITRE ATT attack front facing web applications by learning WordPress and SQL injection and exploit vulnerabilities in IoT devices such as command injection by going through three CTFs and learning about the discovery of seven CVEs Each chapter analyzes confirmed cases of exploitation mapped with MITRE ATT and security managers and CISOs looking to truly understand the impact and risk of web IoT and smart contracts Basic knowledge of web technologies as well as related protocols is a must **The IoT Hacker's Handbook** Aditya Gupta,2019-03-30 Take a practitioner's approach in analyzing the Internet of Things IoT devices and the security issues facing an IoT architecture You'll review the architecture's central components from hardware communication interfaces such as UART and SPI to radio protocols such as BLE or ZigBee You'll also learn to assess a device physically by opening it looking at the PCB and identifying the chipsets and interfaces You'll then use that information to gain entry to the device or to perform other actions such as dumping encryption keys and firmware As the IoT rises to one of the most popular tech trends manufacturers need to take necessary steps to secure devices and protect them from attackers The IoT Hacker's Handbook breaks down the Internet of Things exploits it and reveals how these devices can be built securely What You'll Learn Perform a threat model of a real world IoT device and locate all possible attacker entry points Use reverse engineering of firmware binaries to identify security issues Analyze assess and identify security issues in exploited ARM and MIPS based binaries Sniff capture and exploit radio communication protocols such as Bluetooth Low Energy BLE and ZigBee Who This Book is For Those interested in learning about IoT security such as pentesters working in different domains embedded device developers or IT people wanting to move to an Internet of Things security role **Software Defined Networks** Paul Goransson,Chuck

Black, Timothy Culver, 2016-10-25 Software Defined Networks A Comprehensive Approach Second Edition provides in depth coverage of the technologies collectively known as Software Defined Networking SDN The book shows how to explain to business decision makers the benefits and risks in shifting parts of a network to the SDN model when to integrate SDN technologies in a network and how to develop or acquire SDN applications In addition the book emphasizes the parts of the technology that encourage opening up the network providing treatment for alternative approaches to SDN that expand the definition of SDN as networking vendors adopt traits of SDN to their existing solutions Since the first edition was published the SDN market has matured and is being gradually integrated and morphed into something more compatible with mainstream networking vendors This book reflects these changes with coverage of the OpenDaylight controller and its support for multiple southbound protocols the Inclusion of NETCONF in discussions on controllers and devices expanded coverage of NFV and updated coverage of the latest approved version 1 5 1 of the OpenFlow specification Contains expanded coverage of controllers Includes a new chapter on NETCONF and SDN Presents expanded coverage of SDN in optical networks Provides support materials for use in computer networking courses **OpenWrt Essentials** Richard Johnson, 2025-05-27 OpenWrt Essentials OpenWrt Essentials provides a comprehensive and authoritative guide to mastering OpenWrt the open source Linux based operating system at the forefront of modern embedded networking Starting from the system s architectural foundations and design principles this book offers an in depth exploration of OpenWrt s build system package management process control and platform specific optimizations Readers will gain clear insights into the historical evolution of OpenWrt and learn to navigate the nuances of device selection custom firmware image creation and mass deployment strategies supported by best practices in backup disaster recovery and system bootstrapping The book delves into advanced networking topics equipping professionals with expertise in configuring robust network topologies VLANs dual stack routing wireless optimization and policy driven segmentation for high availability and multi tenant environments Comprehensive sections on security cover every facet of system hardening user authentication firewall management encrypted communications intrusion detection and secure firmware updates ensuring administrators can maintain strong defense in depth across deployment scales True to its hands on ethos OpenWrt Essentials also empowers users to extend and customize their systems with detailed coverage of package and LuCI application development automation with UCI and scripting system telemetry and remote device orchestration Special emphasis is placed on API integration cloud and edge management IoT deployments and performance tuning for resource constrained scenarios Whether scaling enterprise fleets enabling edge analytics or contributing to the OpenWrt community this book serves as the definitive reference for unleashing the full potential of OpenWrt in today s connected world Arduino Meets Linux Bob Hammell, 2015-07-24 Build the next generation of connected projects The Y n is one of the most powerful and flexible hardware development boards in the Arduino range It combines the ease of use of the Arduino platform with the power of a 400 MHz Atheros AR9331 Wi Fi

system on chip WiSOC that runs Linux But if you are not experienced and confident in working with Linux based operating systems it may be difficult for you to use the Y n to its full potential Bob Hammell is the author of popular Arduino learning resources such as Connecting Arduino Programming and Networking with the Ethernet Shield In this book he guides you through all of the Arduino Y n s features and explains how to make use of this unique board Using interesting and fun examples in Arduino Meets Linux The User s Guide to Arduino Y n Development you can learn how to Connect your Arduino Y n to your network using built in support for Wi Fi and Ethernet Work with OpenWrt Yun Linux through the command line Use the Bridge Library to communicate and share data between both of the Y n s chips Write Python and shell scripts to automate tasks and use the power of the AR9331 in your Arduino projects Work with Temboo and third party APIs to access popular web services Host your own websites and application programming interfaces APIs on the Y n Use USB devices such as audio interfaces and gamepads from Microsoft Xbox 360 R and Sony PlayStation R games consoles Build Arduino projects that act as a keyboard or mouse when you plug your Y n into a PC or Mac Add voice recognition and speech to your Arduino projects Download source code view demo videos and access extra projects from the book s companion website ArduinoMeetsLinux com And much much more Whether you are an experienced Linux developer looking for specific details on using the Arduino Y n or a beginner who has never used Linux before you can find all of the key information that you need in this book With the Arduino Y n you can take your Arduino projects to the next level This book shows you how

Mastering OpenWrt Lua Max Morah,2026-01-19 Master Your Network with Professional Grade Automation Most routers are treated as static appliances yet beneath the plastic casing of an OpenWrt device lies a powerful Linux environment capable of sophisticated intelligent behavior Mastering OpenWrt Lua is the definitive technical roadmap for engineers and administrators who want to move beyond simple configurations and transform their hardware into a self healing responsive network node This book explores the intersection of the Lua programming language and the OpenWrt ecosystem It is designed for those who understand that in the world of embedded systems resources are a luxury Every chapter is built on the philosophy of resource empathy teaching you how to write high performance code that respects the strict CPU and memory limits of router hardware You will transition from basic shell scripting to building modular maintainable systems using the same tools used by professional firmware developers What You Will Discover Inside The Core APIs Detailed explanations of the Unified Configuration Interface UCI for persistent settings and the Micro Bus ubus for real time inter process communication System Integration How to utilize the procd init system to manage services and the hotplug system to react to hardware events instantly Advanced Web Development A deep dive into the LuCI web interface including the Model View Controller design pattern and the creation of asynchronous interactive dashboards Networking and Security Implementing industrial strength features such as WAN failover dynamic Quality of Service QoS automation and privilege separated access control Professional Deployment The mechanics of packaging your applications with opkg managing over

the air OTA updates and ensuring long term system stability From Concept to Production Written with a warm but authoritative professional tone Mastering OpenWrt Lua avoids unnecessary fluff and focuses on actionable technical depth Whether you are building a custom gateway for a remote industrial site or optimizing a high performance home lab this guide provides the patterns recipes and best practices required for success You will learn not just how to write the code but how to profile debug and secure it against the unique challenges of the networking environment By the end of this journey you will possess the skills to command your network with precision You will no longer be limited by the default features of your firmware Instead you will have the power to engineer custom solutions that are as stable and secure as the hardware they manage It is time to unlock the full potential of your OpenWrt device

OpenSearch Administration and Development Guide William Smith,2025-08-19 OpenSearch Administration and Development Guide The OpenSearch Administration and Development Guide is the definitive manual for engineers architects and system administrators looking to deploy operate and extend OpenSearch at scale Providing a robust foundation this book intricately covers the origins and core architecture of OpenSearch explaining its distributed nature indexing internals and the essentials of plugin based extensibility By delving into both the historical evolution and technical underpinnings readers gain a clear understanding of cluster dynamics metadata management and the factors that set OpenSearch apart in modern search and analytics ecosystems This guide transitions seamlessly from foundational concepts to advanced operational techniques offering best practices for cluster sizing deployment automation and resilient configuration management It extensively addresses indexing strategies data modeling query optimization and search analytics empowering practitioners to design efficient data pipelines handle time series and log workloads and streamline real time or bulk ingestion Dedicated chapters on security compliance and access control detail enterprise grade methods for authentication RBAC auditing and protection against vulnerabilities ensuring deployments remain robust and regulation ready Rounding out its comprehensive approach the book explores observability troubleshooting DevOps automation and extension through custom plugins Real world guidance on infrastructure as code Kubernetes operations managed service comparisons and incident response prepares teams for diverse production environments Whether building custom integrations with SDKs managing multi tenant environments or fine tuning search performance and reliability this guide serves as an authoritative resource for mastering OpenSearch from day one to advanced optimization

ONC + Developer's Guide Sun Microsystems,1995 **Vagrant Unlocked: The Definitive Guide to Streamlining Development Workflows** Adam Jones,2025-01-27 Unlock the full potential of Vagrant with Vagrant Unlocked The Definitive Guide to Streamlining Development Workflows This comprehensive guide is a must read for developers DevOps engineers and IT professionals eager to optimize their workflow and ensure uniformity across team projects Begin your journey with an introduction to Vagrant understanding its role in enhancing the development process followed by detailed instructions on setting up and configuring your first Vagrant environment Master the complexities of

provisioning networking and managing multi machine setups that reflect real world applications Delve into advanced features such as utilizing snapshots for state management efficient file sharing plugin customization and effective troubleshooting strategies Vagrant Unlocked doesn't just stop at setup it guides you in seamlessly integrating Vagrant into your workflow to boost team collaboration and maintain a consistent environment across development staging and production Each chapter is carefully crafted offering step by step tutorials best practices and practical examples to empower you in mastering Vagrant confidently Whether you're new to Vagrant or looking to enhance your expertise this book provides a thorough understanding and practical experience making your development process smoother and more predictable Embrace Vagrant's capabilities and revolutionize how you build test and manage development environments with Vagrant Unlocked The Definitive Guide to Streamlining Development Workflows

Remix Architecture and Application Development William Smith, 2025-08-20 Remix Architecture and Application Development Remix Architecture and Application Development is a comprehensive guide crafted for developers and architects aspiring to master the Remix framework This book delves into the philosophical foundation and technical core of Remix revealing how its route centric architecture data flow mechanisms and commitment to progressive enhancement distinguish it among modern web technologies Through in depth exploration of server side rendering strategies resource management and component composition readers gain a practical understanding of building robust high performance applications from the ground up Beyond the fundamentals the book tackles advanced design patterns crucial for scaling complex applications Topics include sophisticated routing techniques state management strategies across both client and server and seamless integration with databases APIs and real time infrastructures Special attention is given to performance engineering and security offering actionable insights into optimizing asset delivery implementing secure authentication and authorization and safeguarding against common vulnerabilities all vital considerations for mission critical deployments To ensure reliability at scale the book further covers end to end testing methodologies observability and modern DevOps practices tailored for Remix applications Readers will find guidance on deploying resilient systems in cloud environments orchestrating continuous delivery pipelines and managing multi region hybrid deployments Ample real world case studies extensibility patterns internationalization strategies and accessibility best practices anchor the technical concepts making Remix Architecture and Application Development an indispensable resource for anyone engineering next generation web applications

Cross-Compiler 28 Success Secrets - 28 Most Asked Questions on Cross-Compiler - What You Need to Know Crystal Paul, 2014-10-30 A source of cross compiler inspiration There has never been a cross compiler Guide like this It contains 28 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about cross compiler A quick look inside of some of the

subjects covered ARMv8 Floating point VFP Saxon XSLT Versions ETRAX CRIS Software SheevaPlug Variants and modifications OpenWrt Development Compilers ARMv7 Floating point VFP List of BASIC dialects D Object Pascal Legacy products ARMhf Floating point VFP Aztec C Current status Target language computing Compiled Google Web Toolkit Development with GWT Forth programming language Structure of the language Script computer programming Glue languages Compiling Visi On Creation Glue language Glue languages Scripting programming language Glue languages TI BASIC BCPL Uses and Implementations Cygwin Description Cygwin History Pocket computer Tiny C Compiler Current status GP2X Open source development Cross compiler Canadian Cross Macintosh Programmer s Workshop Writing MPW tools and much more

Field Guide to the Distributed Development Stack Andrew Odewahn,2014

Full-Stack Development with Svelte and SvelteKit TONY. BOZEMAN,2025-08-30 Full Stack Development with Svelte and SvelteKit The Complete Guide From Beginner to Advanced Modern Web Apps Development What if you could build modern lightning fast web applications without the heavy complexity of traditional frameworks Svelte and SvelteKit are changing the way developers think about web development simpler syntax smaller bundles and better performance right out of the box This book is a complete hands on guide to mastering full stack development with Svelte and SvelteKit Designed for both beginners and experienced developers it takes you step by step from writing your first component to deploying production ready scalable applications Whether you re looking to sharpen your frontend skills or manage complex full stack workflows you ll gain the knowledge and practical techniques to create modern apps that are fast secure and highly interactive What sets this book apart You ll move through a structured path covering both fundamentals and advanced features Foundations of Svelte Learn how Svelte differs from other frameworks set up your environment and build your first components Core Concepts Master reactivity props events styling and state management with stores and context Building Rich Frontends Add animations custom interactions and optimize rendering for better user experiences Introducing SvelteKit Understand routing layouts SSR SSG and hybrid rendering approaches for scalable apps Full Stack Development Create APIs and endpoints handle authentication and authorization integrate databases and manage real world workflows Advanced Topics Explore deployment strategies Vercel Netlify Docker AWS GCP Azure scaling for high traffic apps security best practices and performance monitoring Appendices Access reusable templates recommended tools and curated resources to speed up your development By the end of the book you won t just know how Svelte and SvelteKit work you ll be able to confidently build and deploy modern full stack applications that rival anything created with more complex frameworks If you re ready to elevate your development skills and build modern web apps with speed and confidence this book is your complete guide Start creating smarter scalable and production ready applications today with Full Stack Development with Svelte and SvelteKit

[Guide to Open Source Web Development](#) ,2007 A ready reference for Web developers who want to use open source software for developing Web applications this book compares and describes open source database servers application and Web servers

and IDEs that can be used to develop Web application *Beyond the Backend* Zion Edwin,2024-12-04 Tired of the JavaScript jungle Elixir with its elegant syntax and powerful concurrency is your key to escaping the frontend frenzy This comprehensive guide empowers you to build modern interactive web applications using the Phoenix framework and its revolutionary LiveView technology About the Technology LiveView reimagines frontend development by leveraging the power of server side Elixir Say goodbye to complex client side JavaScript and hello to real time dynamic user interfaces rendered with the speed and efficiency of Elixir What's Inside Frontend Fundamentals Master the essentials of HTML CSS and JavaScript Phoenix Framework Build a solid foundation with Phoenix's MVC architecture routing and Ecto database integration LiveView Mastery Craft real time interactive UIs with LiveView from simple components to complex applications Advanced Techniques Explore Live Components live navigation testing strategies and performance optimization JavaScript Interoperability Seamlessly integrate JavaScript libraries and frontend frameworks for enhanced functionality Real time Communication Build collaborative features and live updates with Phoenix Channels and Presence Case Studies Dive into real world projects building a real time dashboard and an interactive game Deployment and Beyond Deploy your application with confidence and learn about continuous integration delivery and performance monitoring Who This Book Is For This book is perfect for Elixir developers who want to Expand their skills to include frontend development Build real time dynamic web applications with LiveView Escape the complexities of traditional JavaScript frameworks Create engaging and interactive user experiences Don't get left behind The world of web development is moving towards real time interactive experiences LiveView is at the forefront of this revolution and this book is your ticket to joining the movement This book is an investment in your skills and your future Mastering LiveView will make you a more versatile and valuable developer opening up new opportunities and allowing you to build the next generation of web applications Ready to become a LiveView expert Grab your copy now and start building amazing web experiences with the elegance and power of Elixir **FULL-STACK WEB DEVELOPMENT WITH MERN** MARCUS C. LAURITSEN,2025

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