

Morgan Miller

Software Engineer | Systems Engineer | Full-Stack Developer

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Portfolio: <https://frostbitstar.zone.id> | GitHub: <https://github.com/Frost-bit-star>

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Professional Profile

Software Engineer focused on building production-oriented software across application development, systems engineering, developer infrastructure, networking, and automation. Experienced in developing full-stack platforms, custom frameworks, communication APIs, deployment tooling, and open-source software using Go, Java, PHP, JavaScript, and Python.

Creator and contributor to projects spanning zero-trust connectivity, privacy-focused hosting, Linux desktop environments for Android, payment-integrated billing systems, and business communication infrastructure.

Maintains an active open-source development portfolio with 51 public repositories and contributions across numerous projects. Combines hands-on engineering with system architecture, infrastructure management, and product development.

Technical Expertise

- **Programming:** Go, Java, PHP, JavaScript, TypeScript, Python, Bash

- **Backend Engineering:** REST APIs, authentication, distributed services, background workers, event-driven systems
- **Systems Engineering:** Linux, process management, networking, deployment automation, infrastructure tooling
- **Application Development:** Full-stack web applications, Android applications, desktop environments, developer tools
- **Networking & Security:** Zero-trust architecture, identity-based connectivity, VPN alternatives, privacy-focused infrastructure
- **Communications Infrastructure:** SMS APIs, email services, WhatsApp integrations, messaging automation, webhooks
- **Payments & Business Systems:** M-Pesa STK Push, billing systems, payment integrations
- **Frontend Engineering:** HTML, CSS, React, JavaScript, dashboards, application interfaces
- **Databases & Tooling:** MySQL, Git, GitHub, API integrations, Linux administration
- **Software Architecture:** Modular frameworks, reusable components, API design, system integration

Selected Engineering Projects

TunGuard — Zero-Trust Connectivity Platform

Technologies: Go

A security-focused connectivity platform designed to provide identity-based access to infrastructure and remote environments.

- Public project: TunGuard Binary
- Focuses on zero-trust connectivity and access to distributed infrastructure.
- Targets use cases involving remote teams, cloud environments, CI/CD pipelines, and infrastructure access.

StackEdge — Privacy-Focused Hosting Platform

Technologies: JavaScript, Termux, Linux

An open-source hosting platform designed to support application deployment from Android devices through Termux.

- Repository: Frost-bit-star/stackedge
- Supports a phone-oriented application hosting workflow.
- Incorporates process management and automatic Tor onion service functionality.

Tuxora — Linux Desktop Environment for Android

Technologies: Java, Android, Linux, Termux, X11

A project bringing a customizable Linux desktop experience to Android through a self-contained application.

- Repository: Frost-bit-star/Tuxora
- Integrates a Linux desktop environment with an Android application.
- Combines terminal access, graphical applications, and desktop configuration.
- Explores packaging and deployment of a desktop environment within an Android application.

Jasiri WiFi Billing System

Technologies: PHP, JavaScript, MySQL, M-Pesa integration

A full-stack Wi-Fi billing solution designed for businesses providing paid internet access.

- Repository: Frost-bit-star/jasiri_wifi_billing
- Integrates M-Pesa STK Push payments into the billing workflow.
- Supports time-based internet access and customer payment processing.

StackVerify — Communications & Developer Infrastructure

Technologies: PHP, JavaScript, TypeScript, Laravel, APIs

A communications and automation platform designed to help businesses integrate messaging, data collection, and automated workflows.

- Website: stack-verify.com
- Develops communication services involving SMS, email, and WhatsApp.

- Includes developer SDKs, API integrations, and workflow automation components.
- Encompasses multiple repositories for platform services, integrations, and developer tooling.

Open-Source Engineering

GitHub: github.com/Frost-bit-star

- Maintains a portfolio of 51 public repositories.
- Recorded 1,188 GitHub contributions over the past year.
- Works across multiple programming languages and software engineering domains.
- Participates in collaborative development through pull requests and contributions to other repositories.
- Maintains projects spanning systems software, application development, networking, and developer infrastructure.

Engineering Approach

- **Systems thinking:** Designs software with attention to architecture, integration, deployment, and operational requirements.
- **Independent execution:** Develops projects across multiple technical domains, from backend services to user-facing applications.
- **Open-source development:** Builds and shares software while collaborating through Git-based development workflows.
- **Practical problem-solving:** Focuses on working implementations, automation, and solutions to real engineering problems.
- **Product engineering:** Connects technical implementation with practical business and user requirements.