Moosa Junad

Software Developer / Systems & Full Stack

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Software developer in the Maldives. I build business software at SME Digital, and on my own time I'm writing a native code editor for macOS and a scripting language to extend it.

EXPERIENCE

SME Digital

Jun 2026 – Present

Software Developer

- Build and maintain full-stack business applications in TypeScript, React, and PostgreSQL.
- API integrations, data validation, and configurable workflows for customer-facing and internal apps.
- Access control, database tooling, and development workflow improvements.

TypeScript · React · PostgreSQL

Alva Productions

Sep 2025 – Jan 2026

Software Engineer Intern

- Built and refactored SwiftUI apps with SwiftData and CloudKit.
- Improved Flutter app responsiveness; maintained apps mixing Swift and Flutter.

SwiftUI · SwiftData · CloudKit · Flutter

Dhiraagu

Apr 2022 – Dec 2022

Customer Support Specialist

EDUCATION

Taylor's University

Jan 2023 – Jan 2026

BSc (Hons) Computer Science

Cyber security major, AI extension. CGPA 3.42.

Languages English · Dhivehi

Projects & technical toolkit

Personal projects spanning programming languages, native applications, and deployment infrastructure.

SELECTED PROJECTS

Eitri

2026

Scripting language · Rust / WebAssembly

Scripts are type-checked and compiled to verified bytecode before they run, then executed by a register-based interpreter with execution budgets. It also runs this site's customisation console, compiled to WebAssembly.

VYR

2026

Code editor · Rust / Swift / AppKit / Metal

A Rust editing core behind a C interface, a Swift and AppKit app, and Metal text rendering. Every command works on many selections at once, with a modal keymap alongside the standard macOS shortcuts.

- Selection-first editing: multiple selections, structural selection by syntax node, text objects, and regex select, split and keep.
- Tree-sitter highlighting, indentation and folding; language servers kept in sync incrementally.
- Git built in: gutter change markers with per-hunk stage and revert, inline blame, and a source control navigator.
- Undo history as a tree, with time travel, local history snapshots and crash recovery.

Web Server

2024

AArch64 assembly · AArch64 / Assembly / TCP

A small HTTP server written directly against system calls in AArch64 assembly.

github.com/junaadh/WebServer

Bloom Light

2025

E-commerce · Next.js / PostgreSQL / Docker / Cloudflare

Storefront, admin dashboard, and the infrastructure to deploy and run them.

- Storefront and admin dashboard with containerised infrastructure, PostgreSQL, and object storage.
- Deployments automated with GitHub Actions; private networking, reverse proxy, and TLS.

bloomlightmv.com

TECHNICAL TOOLKIT

Languages

Rust · TypeScript · Swift · C / C++ · Zig · AArch64 assembly

Web

React · Next.js · Remix · Axum · Hono

Native

SwiftUI · SwiftData · CloudKit · UIKit · Flutter

Data & infra

PostgreSQL · Redis · Docker · Linux · GitHub Actions · Cloudflare · Caddy · Prometheus · Grafana · Loki