

AJAO WASIU OLAYINKA - SENIOR DEVELOPER

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LINKS

[LinkedIn](#)

[Github](#)

[Twitter](#)

[crate.io](#)

INTRO

A professional and talented Software Developer proficient with rust and several web frameworks. A graduate of Mathematics, University of Ilorin, Nigeria.

WORK HISTORY

February 2024

Personal Project

Note Editor

Frameworks: React, Bulma CSS

- I built the entire UI structure using React and Bulma CSS
- Implemented persistence using the browser local storage API

June. 2023

BookLy - Full Stack Project

Frameworks: React, Express JS, MongoDB

- Designed and developed a user-friendly book-finding platform to help users locate books across multiple genres and categories.
- Integrated advanced search functionalities with filters such as author, title, genre, and publication date.
- Optimized user experience with personalized book recommendations and intuitive navigation.
- Utilized backend technologies to support efficient database management and real-time search results.
- Ensured responsive design for compatibility across devices, enhancing accessibility for all users.

September 2024

Personal Project

Email Subscription System - Backend

Language: Rust

Frameworks: Tracing, Actix-Web, SQLx, Postgres

- Developed an email newsletter platform using Rust, Actix-Web, and SQLx for high-performance and scalable operations.
- Built secure subscription flows, including user sign-ups, verification, and double opt-in procedures.
- Leveraged SQLx for efficient database interactions, ensuring reliable storage and retrieval of user data and email logs.
- Designed asynchronous job handling for queueing and sending emails at scale with low latency and fault tolerance.
- Integrated email delivery APIs and tracking features (open rates, clicks) to provide valuable insights for marketing and sales strategies.
- Optimized the system for speed, security, and maintainability, ensuring it scales with growing user bases.

September 2024

Database Project

BIBI DB

Language: Rust

Frameworks: serde, serde_json

- Built a lightweight database system with data persistence using serde and serde_json for serializing and deserializing records.
- Implemented basic CRUD operations (Create, Read, Update, Delete), storing data in JSON format for easy manipulation and retrieval.
- Designed a schema-like structure to allow dynamic and flexible data storage.
- Utilized serde for efficient serialization of in-memory data to JSON files, ensuring fast read/write performance.
- Developed error handling mechanisms to ensure robust data storage and recovery.
- Focused on maintaining data integrity and persistence between sessions, with efficient file I/O operations.
- Optimized for simplicity, modularity, and ease of integration with other systems or applications.

PROJECTS

2024

Node Starter

[Github - NodeStarter](#)

A template for building backend with ExpressJS, MongoDB, and JWT.

2024

BIBI DB

[Github - BIBI DB](#)

A lightweight database with data persistence and easy read/write operation

2023

Note Editor

[See Editor](#)

A simple in-browser note editor

2024

CHIP 8

[Github - Implementation](#)

A chip-8 CPU implementation in Rust

2023

Rust MKDIR

[Link on crates.io](#)

A Rust-built tool to create directories

OPEN-SOURCE CONTRIBUTIONS

2024

Linera Protocol

[Github](#)

I ran benchmarks and provided insights to the existing protocol.

TECHNICAL SKILLS

Rust
Actix-Web Framework
Javascript
Typescript
React
Mongoose
NodeJS
ExpressJS
Cryptography
Bulma CSS
Solana Anchor Framework
Polkadot Substrate
General Web-3 and Cryptocurrency technical know-how

CERTIFICATES

Meta Frontend & Backend Development

Track: Frontend, Backend

Algorand Web-3 Development Bootcamp.

Track: Smart Contract Development

Coursera Data Structures and Algorithms in C.

Track: Algorithms

EDUCATION

Nov. 2019 - Aug. 2024

Bachelor's Degree - Mathematics

University of Ilorin, Ilorin.