

Joshua Olúwaseun Aminu

Rust Developer (Back-End) | Lagos, Nigeria | github.com/seun-ja

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EXPERIENCE

Unbox, Antwerp (Remote) — Senior Rust Developer

November 2023 - November 2024

- Participated in systems design on new platforms and redesigned existing projects
- Built modular verification handler server using libraries such as Axum, Tokio, Cardano, and Sqlx. Available in production.
- The server ships with a spawned background worker cleaning up stale verification
- Implemented OpenTelemetry for global tracing and logging. Tracing Status Code, Payload, and connected Signoz. Tracing data such as Status Code, Payload, etc. and connected Signoz.
- Built the backend server for interacting with the internal AI LLM, currently in production and available on <https://litterbot.ai/>
- Debug and improve the existing codebase, notably a function handling Postgres transactions, which reduced the speed by 10s..
- Wrote a series of integration tests
- Participated in PR reviews.
- Integrated Postgres databases for backend servers
- System compatibility with Cardano on-chain identity

HisFold, Lagos (Remote) — Lead, Rust Developer

December 2022 - January 2024

- Developed the back-end server using Actix and Tokio
- Integrated Postgres as its Primary database
- Implemented Redis for some components as a cache
- Built and audio streaming micro-services using WebSocket. Receives bytes of data, beaming it to AWS Kinesis
- Implemented logging systems for better diagnosis
- Created and hosted the app as a Docker image on Digital Ocean
- Integrated GraphQL with the backend server, making it compatible with a front-end UI.
- Integrated NATS messaging. This was useful for triggering notifications on Android devices when an event happens. It can also be implemented with other components

Supra Oracles, California (Remote) — Rust Developer

May 2021 - August 2022

- Explored Substrate with the team, focusing on exploiting libp2p's Kademlia DHT library capability to propagate data amongst nodes.
- Contributed to the Supra Core layer 1 blockchain for Testnet.
- Built Oracle POC with a team, extracting ETH prices from the Ethereum network.
- Implemented Byzantine Fault Tolerance consensus protocol, in which nodes can select leaders of a clan, asserting the validity of a block.
- Integrated RocksDB for nodes storing temporary data
- Wrote unit tests for some modules and identified some bugs in the resolution

SKILLS

Rust, Embedded Rust, Java, C#, NodeJS, Android Development (Kotlin), AWS, GCP, Linux, Docker, Nix, PostgreSQL, RocksDB, GraphQL, NATs, Apache Kafka, Blockchain, Bash, Digital Ocean.

LANGUAGES

English, Yoruba

INTERESTS & HOBBIES

Chess, Music, Travelling, Football, Computers

process.

- Worked on benchmarking some transaction verification performance.
- Worked on using Kafka to transmit on-chain data from some dedicated nodes for data collection.
- Participated in PR reviews.
- Participated in architecture design discussions.

Gridlock, Bristol (Remote) — Rust Developer

January 2021 - March 2021

- Added to existing application features by writing Rust multi-threaded code.
- Contributed to DKG for private key generation
- Refactor and improve existing code to incorporate better patterns.
- Applying the latest cryptographic techniques to protect digital transaction data against cyber attacks and information hacks.

Diamond Acre Software, Lagos — Junior Rust Developer

October 2019 - December 2020

- I write APIs handling interactions with our client's database.
- Collaborate with the front-end developers and other team members to establish objectives and design more functional, cohesive code to enhance the user experience.
- Build single-page applications with HTML & CSS with Rust or JavaScript.
- Refactor and improve existing code to incorporate better patterns
- I write programs in Rust, also support front-end projects, writing in HTML & JavaScript

EDUCATION

University of Benin, Edo State, Nigeria — BSc. Banking and Finance

March 2011 - December 2014

I received a second-class honours degree upon graduation.

Wrote my thesis on DETERMINANTS OF MICROFINANCE BANK LENDING IN NIGERIA

TRAINING

Embedded Rust Training — Ferrous Systems

October 2024

- Completed a test to start the train:
<https://github.com/seun-ja/ferrous-system-self-test>
- Explored hands-on implementation of the Real-Time Interrupt-driven Concurrency framework (RTIC)
- Introduction and hands-on implementation of Board Support Crates (BSC), Peripheral Access Crates (PAC) and HAL implementations including embedded-hal traits.
- Radio packet transmission while tracking the Link Quality Indicator (LQI) metric.
- Tools used: Nordic's nRF52840-DK and nRF52840-Dongle semiconductors

OPEN-SOURCE CONTRIBUTION & NOTABLE PUBLIC REPOSITORY

- [Supra POC Node \(Substrate\)](#) | [Open Source](#) | Rust
- [Web server built using Rust and Poem](#) | Rust, TypeScript
- [Simple Audio Stream via WebSocket in Rust](#) | Rust
- [Paystack Rust Client](#) | [Open Source](#) | [Published on Crates.io](#) | Rust
- [PDF to Audio converter with AI](#) | [Open Source](#) | Rust
- [Laerning Tool API](#) | [Open Source](#) | Rust