FAROUQ OGUNTOYE

farouqoguntoye05@gmail.com | LinkedIn | Github | Portfolio

SUMMARY

Versatile Software Engineer with ~3.5 years of experience specializing in backend development (Python/Flask, C++), full-stack applications (JavaScript, React Native), and blockchain technologies (TON). Proven ability to design, build, and optimize complex systems, user-facing applications, and decentralized solutions. Demonstrated expertise in C++ systems programming, API development, mobile app creation, and smart contract integration. Seeking challenging roles leveraging skills in Full Stack Development, Blockchain Security Research, or AI/ML application development. Eager to contribute to innovative projects and further explore cutting-edge technologies.

SKILLS

- **Languages:** C++, Python, JavaScript, SQL, FunC
- **Backend:** Python (Flask)), RESTful APIs, Systems Design, Performance Optimization, Memory Management, PostgreSQL, SQLite
- **Frontend / Mobile:** JavaScript, React Native, React.js, HTML, CSS
- **Blockchain:** TON Blockchain, Smart Contracts, Telegram Bot API, Web3 Concepts, Blockchain Security Principles
- **AI / Data Science:** Machine Learning Concepts, Data Analysis (Pandas, Scikit-learn), Data Visualization
- **Tools & Platforms:** Git, Docker, Linux, Cursor, Postman, CI/CD (basic understanding), Render/Vercel (deployment)
- **Concepts:** Object-Oriented Programming (OOP), Data Structures, Algorithms, Asynchronous Programming, Thread Safety

EXPERIENCE

Tonfans | Remote
Lead Developer (Blockchain/Bot) | Sept 2024 – Jan 2025

- Led the end-to-end development of a core Telegram bot integrated with the TON blockchain, handling core community operations.
- Designed and implemented features for purchasing Tonfans NFTs and SHIVA Jetton directly via the bot, interacting with respective smart contracts.
- Developed secure backend logic (Python) and integrated Telegram Bot API for seamless user interactions, including automated access to private whale chats upon NFT ownership verification.
- Contributed to the design and testing of the Tonfans NFT and SHIVA Jetton smart contracts on the TON network.

Lifestores Pharmacy | Lagos, NG
Systems Engineer | Sept 2022 – Aug 2024

- Designed and implemented a high-performance, real-time order processing system in C++ for the e-commerce platform, handling over 500 orders/hour with sub-second latency.
- Developed a custom C++ memory management library incorporating thread-safe allocation strategies, reducing memory usage and improving system throughput by 25%.
- Engineered a high-performance C++ logging and telemetry framework to monitor critical backend systems, enabling 40% faster issue detection and resolution.

Ultra Cloud Technologies | Remote
Backend Developer | Aug 2021 – June 2022

- Developed and maintained RESTful APIs using Python/Flask for a user authentication service, reliably handling over 1,000 daily requests.
- Implemented database migrations and optimized PostgreSQL queries for a customer management system, reducing average query latency by 30%.
- Collaborated with DevOps to containerize backend services using Docker, enhancing deployment efficiency and scalability.

PROJECTS

Data Visualizer Dashboard

- - Developed a Flask-based web application to visualize data
- - Utilized Pandas for efficient data processing of large datasets
- - Implemented interactive visualizations using Plotly to display outcomes and performance metrics

TON Escrow Service | Telegram

- Built a Telegram bot facilitating secure P2P escrow services using smart contracts on the TON blockchain.
- Implemented secure interaction logic between users, the bot backend (Python), and the TON smart contract.
- *Tech Stack:* TON Blockchain, FunC), Python/JavaScript, Telegram Bot API.

Resume Optimizer

- Developed and deployed a full-stack web application providing feedback on resumes (*leveraging NLP*).
- *Tech Stack:* Python, Flask, JavaScript, React, PostgreSQL, Hostinger.

Custom Memory Allocator

- Implemented a high-performance, thread-safe C++ memory allocator with multiple allocation strategies (e.g., pooling) to optimize application speed.
- *Tech Stack:* C++, Systems Programming, Memory Management.

MathGym Mobile App

- Developed an MVP of a mobile application using React Native for practicing mathematics skills.
- Implemented UI/UX components and application logic for interactive exercises.
- *Tech Stack:* React Native, JavaScript, Expo.

EDUCATION

Obafemi Awolowo University | Ile-Ife, Nigeria
Bachelor of Science, Applied Geophysics | July 2024

Federal Polytechnic, Ado Ekiti | Ekiti, Nigeria
National Diploma, Mechanical Engineering | June 2019