

John Lester C. Fuertes

Junior Software Engineer

Blk 2, Lot # 28, Malakas St, Lupang Arenda, Sta Ana, Taytay, Rizal 1920



09774129580



johnlester.fuertes@gmail.com



[linkedin.com/in/jlfuertes14](https://www.linkedin.com/in/jlfuertes14)



jlfuertes.dev

PROFESSIONAL SUMMARY

Computer Engineer with a strong foundation in full-stack development, Python backends, and practical AI application building. Resourceful developer skilled at leveraging modern tech stacks including Next.js, FastAPI to quickly prototype and ship functional software solutions.

EDUCATION

Rizal Technological University
Bachelor of Science in Computer Engineering

Aug 2022 – July 2026
Maybunga, Pasig

EXPERIENCE

Q Asia Magazine Inc.

Information Technology Intern

Feb 2026 – April 2026

Mandaluyong City

- Developed an automated email outreach application using Python, CustomTkinter, and FastAPI, streamlining bulk client campaigns and saving 4 hours of manual work per session.
- Programmed dynamic data parsing engines to handle Excel and CSV recipient databases, automatically generating tailored HTML invitation templates for up to 150 businesses at a time.
- Integrated security controls and batch throttling to prevent spam flags, alongside an interactive browser-based previewer, successfully increasing overall outreach efficiency by 60%.

TECHNICAL PROJECTS

LaVida Pharmacy – Pharmacy Management System & POS

- Engineered a secure Role-Based Access Control (RBAC) system within a pharmacy desktop application using C#, .NET, and Windows Forms in Visual Studio to strictly partition system privileges between Managers and Pharmacists.
- Developed an automated checkout and Point of Sale (POS) engine that mathematically processes prescriptions, applies a 12% Value Added Tax (VAT), and deducts a 20% discount for eligible Senior and PWD customers.
- Programmed an inventory monitoring system that aggregates product shelf data, surfaces automated alerts for critical medicine shortages, and tracks expiring products within a 3-month window.

OrionBot – Local Desktop AI Assistant and Agentic IDE.

- Engineered a local agentic IDE and desktop assistant using a Python FastAPI asynchronous backend and a Flutter/Dart frontend, automating codebase modifications through isolated, sandboxed terminal and filesystem tooling execution.
- Implemented an offline Retrieval-Augmented Generation (RAG) system by utilizing ChromaDB and SQLite to chunk, embed, and index text documents, achieving low-latency semantic search and retrieval for custom knowledge bases.
- Integrated multiple AI models using LiteLLM and secured user API keys with local AES encryption, ensuring 100% data privacy and safe offline usage.

OrionCLI – CLI Agent Coding Assistant

- Architected a terminal-native agentic coding assistant in Rust, orchestrating 7+ major LLM providers to autonomously execute multi-step file operations and codebase modifications.
- Engineered a stateful interactive REPL environment utilizing a local SQLite database to manage continuous session context and dynamically parse modular, JSON-defined developer tools and skills.
- Automated a cross-platform deployment pipeline using GitHub Actions CI/CD to compile and publish native NPM binaries across 5 distinct OS targets, incorporating Docker for secure execution sandboxing.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, C++, C#, Rust, Dart, HTML/CSS

Frameworks & AI: FastAPI, Next.js (App Router), React, Flutter, .NET, LiteLLM

Databases & Storage: PostgreSQL, DuckDB, SQLite, MongoDB, ChromaDB (Vector store), Prisma ORM

Developer Tools: Git/GitHub, Docker, GitHub Actions (CI/CD), REST/GraphQL APIs, VS Code, Visual Studio