

Abdelrahman Amer

Software Engineer | Backend Developer | AI Tools Builder

Phone: +20 100 650 3372

Location: Cairo, Egypt | Open to remote and relocation opportunities

Email: aboodamer7@gmail.com

LinkedIn: <https://www.linkedin.com/in/abdelrahman-amer-pro>

GitHub: <https://github.com/amer2040>

Portfolio: <https://abdoamer.me>

#Professional Summary

Software Engineer with hands-on experience in backend and full-stack development using Python, Node.js, Express.js, Flask, MySQL, Redis, React, and Linux. Completed the ALX Africa Software Engineering program and built practical projects including REST APIs, database-backed applications, a crypto portfolio backend, a Flask task management app, and a custom UNIX shell in C. Strong foundation in problem solving, system-level programming, API development, database design, Git workflows, Agile collaboration, and building practical AI-powered tools. Seeking Software Engineer, Backend Developer, or AI Tools Builder opportunities.

#Technical Skills

Backend & APIs: Node.js, Express.js, Python, Flask, REST APIs, API Design, Authentication, Input Validation, Error Handling

Frontend: JavaScript ES6+, TypeScript, React, Redux, HTML5, CSS3

Databases & Caching: MySQL, PostgreSQL, SQLite, Redis, SQL, Data Modeling

Systems & DevOps: C, Linux, Bash/Shell, UNIX, Git, GitHub, Docker, NGINX, SSH, SSL/TLS, Load Balancing

Testing & Tools: Jest, Unittest, Postman, Makefiles, Vim

Core CS: OOP, Data Structures, Algorithms, Memory Management, Process Management

#Projects

##Backend API for Crypto Portfolio

Built a Node.js and Express.js backend API for managing cryptocurrency investment records with a MySQL database.

- Implemented CRUD operations for adding, updating, retrieving, and deleting investment entries.
- Added automated average price calculation for duplicate asset entries.
- Designed database-backed data handling with validation and error responses.
- Improved data integrity through structured input checks and consistent API behavior.

Tech Stack: Node.js, Express.js, MySQL, REST API

##AirBnB Clone - Backend & Console

Engineered the backend foundation for an AirBnB-style platform using Python and a custom command-line interface.

- Built a Python console that manages application models including User, State, City, Place, Review, and Amenity.
- Implemented full CRUD functionality through interactive and scriptable command modes.
- Designed JSON-based data persistence and object serialization/deserialization.