TEWODROS BERHANE ABRAHA

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SOFTWARE ENGINEER | BACKEND & FULL-STACK DEVELOPER

Passionate and results-driven Backend Developer with a focus on building scalable web applications and solving real-world problems. Experienced in deploying full-stack solutions and managing end-to-end database design. Demonstrated impact through freelance and internship roles by delivering production systems using Laravel, MySQL, and Python. Skilled in API development, automation, and cross-functional collaboration. Eager to contribute an ownership mentality and technical expertise to a mission-driven startup environment.

TECHNICAL SKILLS

- **Programming Languages**: Python, PHP, JavaScript, C++, Java
- **Frameworks & Tools**: Laravel, Node.js, Flask, React.js, Hardhat, Ethers.js
- **Databases**: MySQL, SQL, MongoDB
- **Web Technologies**: HTML5, CSS3, RESTful APIs, WebRTC, Solidity
- **Automation**: Python scripting for crypto data analysis and portfolio analytics
- **Other**: Git, Computer Vision, Deep Learning (CNNs, ResNet18)

PROFESSIONAL EXPERIENCE

Backend Developer Intern
Exceed IT Solutions
Jul 2024 – Sep 2024

- Solely architected and deployed the backend and database for a fully functional online learning platform serving the Tigray region, supporting active daily users and multiple concurrent courses.
- Engineered secure user authentication and role-based access controls.
- Developed dynamic course modules that enabled interactive quizzes and progress tracking, benefiting hundreds of users.
- Successfully integrated automated certificate generation and reporting tools, streamlining the learning process.

Technologies: Laravel, PHP, MySQL, HTML, CSS, JavaScript, SQL, Git

Freelance Backend Developer
Kinet Academy (kinetacademy.com)
Oct 2024 – Jul 2025

- Built and maintained backend logic for multiple web projects, optimizing system performance using Laravel and MySQL.
- Developed RESTful APIs for frontend and third-party integrations, ensuring seamless system communication.
- Provided ongoing technical support and resolved bugs, maintaining 99% system uptime and improving feature stability.

Technologies: Laravel, PHP, MySQL, HTML, CSS, JavaScript, SQL, Git

PROJECTS

AI-Based Cheating Detection System
- Developed a full-stack proctoring system using computer vision and audio analysis to detect cheating behaviors.
- Integrated deep learning models (CNNs, ResNet18) with a platform built on React.js, Node.js, and MongoDB.

Decentralized Crowdfunding Platform
- Engineered a fully on-chain Web3 crowdfunding application using React, Ethers.js, Hardhat, and Solidity.
- Designed and implemented smart contracts to enable user campaigns, ETH contributions, and fund management without a centralized backend.

Crypto Automation Tools
- Created custom Python scripts for wallet tracking, token monitoring, and portfolio analytics, streamlining data gathering and reporting.

EDUCATION

BSc in Computer Science
Mekelle University, Mekelle, Ethiopia
June, 2025