

## TEWODROS BERHANE ABRAHA

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### SOFTWARE ENGINEER | BACKEND DEVELOPER

Backend Developer experienced in building and deploying robust web applications, managing end-to-end database design, and creating scalable solutions. Demonstrated impact through both freelance and internship roles, delivering production systems using Laravel, MySQL, and Python. Skilled in API development, automation, and cross-functional collaboration. Passionate about technology that solves real problems, from educational platforms to crypto automation.

### TECHNICAL SKILLS

- **Programming Languages:** Python, PHP, JavaScript, C++, Java
- **Frameworks & Tools:** Laravel, Node.js, Flask, React.js, VS Code
- **Databases:** MySQL, SQL, MongoDB
- **Web Technologies:** HTML5, CSS3, RESTful APIs
- **Automation & Crypto:** Wallet and token trackers, crypto data tools (Python)
- **Other:** Git

### PROFESSIONAL EXPERIENCE

#### Backend Developer Intern

##### Exceed IT Solutions

*Jul 2024 – Sep 2024*

- Built and maintained backend logic for multiple web projects, optimizing system performance using Laravel and MySQL.
- Designed and normalized databases to enhance data security and retrieval speed.
- Developed RESTful APIs for frontend and third-party integrations, ensuring seamless system communication.
- Provided ongoing technical support and resolved bugs, maintaining 99% system uptime.
- Participated in code reviews and collaborated with cross-functional teams for successful feature rollouts.

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

#### Freelance Backend Developer

##### Kinet Academy ([kinetacademy.com](https://kinetacademy.com))

*Oct 2024 – Present*

- Solely architected and deployed the backend and database for a fully functional online learning platform serving the Tigray region.
- Engineered secure user authentication, role-based access controls, and user profile management with Laravel and MySQL.
- Developed dynamic course modules, enabling video content delivery, interactive quizzes, and progress tracking for hundreds of users.

- Integrated automated certificate generation and reporting tools, streamlining the learning process for both students and educators.
- Collaborated directly with stakeholders to define technical requirements and deliver features on time.
- Successfully deployed and maintained the system, currently supporting active daily users and multiple concurrent courses.
- Platform recognized for improving digital access to education in a post-conflict region.

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

## PROJECTS

- **AI-Based Cheating Detection System**  
Developed an AI-based proctoring system using computer vision and audio analysis to detect cheating behaviors, integrating deep learning models (CNNs, ResNet18) with a secure full-stack platform (React.js, Node.js, MongoDB, WebRTC) focused on privacy.
- **Kinet Academy (kinetacademy.com)**  
Built and deployed the backend and database for an online learning platform serving the Tigray region. Designed secure user authentication, course management, progress tracking, and certificate generation with Laravel and MySQL.
- **Crypto Automation Tools**  
Developed custom Python scripts and automation tools for wallet tracking, token monitoring, and portfolio analytics in the crypto world, streamlining data gathering and reporting for digital assets.
- **Decentralized Crowdfunding Platform**  
Developed a fully on-chain Web3 crowdfunding application using React, Ethers.js, Hardhat, and Solidity. Designed and implemented smart contracts to enable users to create and manage campaigns, contribute ETH, and handle fund withdrawals or refunds based on campaign outcomes, all without any centralized backend.

## EDUCATION

### **BSc in Computer Science**

Mekelle University, Mekelle, Ethiopia

June, 2025