

ABDUSELAM TESFAYE

Full-Stack Developer | AI Engineer & Evaluation Specialist

abduselamt47@gmail.com • +251 98 309 2696 • Addis Ababa, Ethiopia

[Portfolio](#) • [GitHub: abudi47](#) • [LinkedIn: abdukelam-t](#) • [Upwork](#)

PROFESSIONAL SUMMARY

Software Engineer and full-stack web developer with 5+ years of combined experience across full-stack development, AI engineering, and expert AI data evaluation. Builds scalable web applications with React, Redux, Node.js, Express.js, MongoDB, PostgreSQL, and Tailwind CSS, and backend and automation services with FastAPI and Python. Contributes expert human data and code evaluation to frontier AI labs through AfterQuery and Revelo, and delivers production web applications for international clients on Upwork. Skilled in code analysis, software testing, technical writing, machine-learning integration (K-Means, Random Forest), and evaluating AI-generated responses across technical domains.

CORE COMPETENCIES

Full-Stack Development (MERN) • REST API Design • AI Data & Code Evaluation • RLHF / Model Feedback • ML Integration • Automation & Scripting • Technical Writing • Secure Coding (OWASP)

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, SQL, Java, PHP, HTML5, CSS3

Frontend: React, Redux, React Native, Tailwind CSS, responsive UI

Backend: Node.js, Express.js, FastAPI, Flask, REST API design, JWT auth & RBAC

Databases & ORMs: MongoDB, PostgreSQL, Mongoose, Sequelize, TypeORM

AI & ML: Data annotation & evaluation, RLHF/SFT/DPO feedback, RAG systems, scikit-learn (K-Means, Random Forest), dataset QA

Tools & Practices: Git & GitHub, Linux (Ubuntu, Kali), Docker (basics), code review, software testing, OWASP Top 10

PROFESSIONAL EXPERIENCE

AI Evaluation & Expert Data Specialist — [AfterQuery \(Remote\)](#) 2026 – Present

- Design and author expert-level software-engineering evaluation tasks and reinforcement-learning environments used to benchmark frontier AI coding agents.
- Capture step-by-step expert reasoning — decisions, trade-offs, and context — to produce high-value structured training data beyond simple answer labeling.
- Write reference solutions and validation tests, and audit dataset entries for correctness, originality, and difficulty calibration.

AI Code Review & Annotation Specialist — [Revelo \(Remote\)](#) 2025 – 2026

- Review and evaluate AI-generated code across multiple languages for correctness, efficiency, security, and production-readiness.
- Provide human feedback for LLM post-training (RLHF / SFT / DPO), ranking competing model outputs and refining responses.
- Reproduce and fix repository issues using test-driven development, documenting reasoning traces for agentic-coding (SWE-bench-style) datasets.

Freelance Full-Stack Developer — [Upwork \(Remote\)](#) 2025 – Present

- Deliver end-to-end web applications for international clients using React, Node.js, Express, MongoDB, and PostgreSQL.
- Own the full cycle: requirements gathering, development, testing, deployment, and client communication.
- Maintain strong client satisfaction through reliable delivery and clear technical documentation.

AI Engineer & Full-Stack Developer — [Nile Tech Solutions, Addis Ababa](#) 2024 – 2025

- Designed and built full-stack web applications using the MERN stack and FastAPI, with REST APIs, MongoDB/PostgreSQL, and role-based access control.
- Supported AI initiatives: data preparation, automation workflows, model-integration support, and dataset validation/QA for training pipelines.

- Collaborated with cross-functional teams using Git/GitHub and clean, version-controlled code.

AI & Automation Engineer — Nile Technology Solutions

2023 – 2024

- Developed backend services and automation workflows using FastAPI and PostgreSQL.
- Built and integrated chatbot systems for web and Telegram, including retrieval-augmented (RAG) components.
- Wrote automation scripts to streamline repetitive data-processing and deployment tasks.

Front-End Developer Intern — IE Network Solutions, Addis Ababa

2023

- Contributed to a job recruitment system, building and enhancing UI features with React, JavaScript, HTML, and CSS.
- Collaborated with the team to deliver project features on schedule in a professional development environment.

FEATURED PROJECT

SafeNet Adama — Police Integrated Crime Intelligence System (won project of the Year 2026)

Stack: React, React Native, Node.js/Express, Python/Flask, MongoDB, scikit-learn

- Built a crime-intelligence platform with a web dashboard, React Native mobile app, and Node/Express REST API for incident reporting and case management.
- Developed a Python/Flask machine-learning service using K-Means clustering to detect crime hotspots and a Random Forest classifier to categorize and predict incident types.
- Implemented role-based access for police staff and real-time data visualization to support data-driven policing decisions.

OTHER PROJECTS

- **E-Commerce Website (MERN)** — Full-stack store with product management, user authentication, and order workflows.
- **Student Management System (MERN)** — Role-based access system for managing students and academic records.
- **Real Estate Platform (MERN)** — Property-listing app with search, filtering, and an admin management dashboard.
- **Job Recruitment Platform** — Role-based job portal supporting posting, applications, and status tracking.
- **EthioGram — Real-Time Social App** — Social media and messaging app with real-time chat (WebSockets).
- **RAG-Based Chatbot (Web & Telegram)** — Retrieval-augmented chatbot with local-language support, built with FastAPI.
- **CTF Vulnerable Web App** — Intentionally vulnerable app demonstrating OWASP Top 10 issues for security training.
- **API Development Practice** — REST API development using FastAPI and Node.js.
- **Coding Challenge Generator** — Web system that generates programming challenges for practice and assessment.

EDUCATION

B.Sc. in Software Engineering — Adama Science & Technology University (ASTU)

Graduated 2026

MGPA: 3.75 & CGPA: 3.6 • Focus: Full-Stack Development, Automation, AI & Cyber security Concepts

Languages: English (Professional) • Amharic (Native) • Arabic (Conversational)