

Elias Abera

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Objective

Dedicated and innovative Software Engineering student with hands-on experience in full-stack development, AI/ML, and IoT systems. Passionate about building impactful technology solutions for real-world problems, especially in agriculture, education, and logistics. Seeking opportunities to apply and grow technical skills in collaborative, real-world environments.

Technical Skills

- **Frontend:** HTML, CSS, JavaScript, React.js, Canvas API
- **Backend:** Node.js, Express.js
- **Database:** MongoDB, MySQL
- **AI/ML:** Python, TensorFlow, TensorFlow Lite, CNN, Streamlit
- **Hardware & IoT:** Arduino, IoT Systems, Proteus Simulation
- **Tools & Platforms:** Git, GitHub, VS Code, Linux, Raspberry Pi
- **Other:** REST APIs, GSAP Animations, Deployment (Render, Netlify)

Projects

Smart Beekeeping System

IoT, AI, Blockchain / Jimma University Incubation Center

Developed a smart monitoring system for beekeeping that integrates IoT sensors, machine learning models, and blockchain for secure data logging to enhance honey production efficiency in Ethiopia.

MindSphere

Streamlit,

Python

Hackathon project that supports university students' mental health and academic planning through intelligent recommendations and tools.

Fruit Ripeness Classification (CNN)

TensorFlow,

Python

Trained and deployed a CNN model to classify fruit types and ripeness levels. Structured dataset with 10 fruit classes and ripeness variations, tested with TFLite on Raspberry Pi.

Food Delivery System Website

Html, CSS, JS, PHP

Working on a MERN stack-based food delivery system with location tracking, order management, and user-friendly UI.

Education

B.Sc. in Software Engineering

Jimma University, Ethiopia | Expected Graduation: 2026

- Active in hackathons, incubation programs, and research-based projects

Achievements & Activities

- Finalist – Jimma University Hackathon (MindSphere project)
- Selected Innovator – Smart Beekeeping System, JU Incubation Center
- Self-taught MERN Stack Developer and AI enthusiast
- Contributor to campus tech events and mentorship groups

Languages & Soft Skills

- **Languages:** English, Amharic, Afaan Oromo
- **Soft Skills:** Problem-solving, Team Collaboration, Time Management, Communication, Leadership