

BEZA MEKONNEN

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SUMMARY

Full-stack developer and Computer Engineering graduate (CGPA 3.53) with hands-on experience designing and building production-style web applications and computer-vision systems. Developed end-to-end platforms spanning database design, REST API development (FastAPI, Node.js), and responsive front-ends (React, JavaScript), including a real-time traffic violation detection system built on YOLOv8, DeepSORT, and OpenCV with automated Excel/PDF reporting, and an integrated hospital information system with AI-assisted decision support and telehealth services. Strong in Python, Java, JavaScript, PHP, and MySQL, with a focus on translating real-world problems into reliable, user-friendly software.

PROJECTS

Traffic Violation Detection System — *Computer Vision · FastAPI*

- Built a real-time traffic monitoring system that detects speed violations and generates automated reports, using YOLOv8 for object detection, DeepSORT for multi-object tracking, and OpenCV for video processing.
- Developed a FastAPI-based web dashboard for live monitoring and evidence collection, with violation reports exportable to Excel and PDF formats.

Integrated Hospital Information System with AI Support & Telehealth — *Full-Stack · AI*

- Designed and built a hospital platform streamlining patient management, medical records, and remote consultations, enabling doctors and patients to interact through a secure system.
- Implemented appointment scheduling, digital health records, and AI-assisted decision support to improve healthcare efficiency and accessibility.

Ethiopian Flight System — *PHP · MySQL*

- Developed a web-based flight booking and management system where users search available flights, book tickets, and manage reservations on a database-driven backend.
- Built separate user and administrator interfaces to handle flight operations efficiently, covering schema design, booking workflows, and reservation management.

Ethiopian Law Portal — *Web Platform*

- Created a web platform providing structured access to Ethiopian laws and regulations, allowing citizens and professionals to search, view, and explore legal documents.
- Designed a user-friendly search and browsing interface that improves accessibility of legal resources.

EDUCATION

Hawassa University • 2022 – 2026

Bachelor's Degree • Electrical and Computer Engineering (Computer Engineering Stream)

CGPA: 3.53 • National Exit Exam: 73.75 (Pass)

SKILLS

Python • Java • JavaScript • PHP • React • Node.js • FastAPI • RESTful API Design • MySQL • Database Design • HTML/CSS • Computer Vision (YOLOv8, DeepSORT, OpenCV) • Software Development

LANGUAGES

English • Amharic