MIKIAS GEBRESILASIE GEBRETSADIK

Full-Stack Developer Custom ERP

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EXPERIENCE

Full-Stack Developer Custom ERP

Custom ERP

📅 2025 - Present 📍 Addis Ababa, Ethiopia
- Built secure school ERP using React & ASP.NET
- Implemented role-based access, UI tests, and OWASP-compliant APIs
- Deployed production systems via IIS/Kestrel

Backend Developer Developer

Infra Tech Software

📅 2024 - 2025 📍 Addis Ababa, Ethiopia
- Developed Dockerized Django backend for inventory system
- Supported AWS EC2 deployment, UI/API testing, and validation

EDUCATION

BSc in Computer Science

Saint Mary's University

📅 01/2021 - 01/2025 📍 Addis Ababa, Ethiopia

GPA
3.98 / 4.0

PROJECTS

Pneumonia Detection

Developed a **medical AI system** that classifies chest X-ray images as **Pneumonia or Normal** using a **custom Convolutional Neural Network (CNN)**. Built end-to-end pipelines for **training, evaluation, and deployment**, with a **Flask web app** enabling real-time inference. Designed to be **lightweight, accurate, and scalable** for practical healthcare workflows.

Tech Stack: Python, TensorFlow, Keras, CNNs, Flask, Jinja

University Scheduling System

Built a **high-performance automated scheduling system** using **ASP.NET Razor Pages, jQuery, and Microsoft SQL Server**. Applied a **genetic algorithm** with optimized stored procedures to generate **conflict-free timetables** at scale. Integrated **JasperReports** for dynamic, printable academic reports. Designed for **speed, scalability, and accuracy**, handling **hundreds of courses, instructors, rooms, and constraints** with minimal manual input.

Tech Stack: ASP.NET Razor Pages, jQuery, AJAX, MSSQL, Stored Procedures, Genetic Algorithms, **JasperReports**

AAU Booking System

Redesigned and modernized a **multi-university multimedia booking platform** using **Domain-Driven Design (DDD)** and **Feature-Sliced Design (FSD)**. Built a **high-performance Django REST backend** with **real-time updates** via **WebSocket and Redis**, paired with a **fast React + TypeScript (Vite) frontend**. The system supports **booking, cluster management, attendance tracking, and resource management**, delivering a **scalable, secure, production-ready solution**.

Tech Stack: Django REST Framework, React, TypeScript, PostgreSQL, Redis, WebSocket, DDD, FSD, Vite

SUMMARY

Full-Stack Developer Machine Learning Engineer High-impact Full-Stack & ML Engineer with 5+ years experience, coding since age 10. Delivers secure, scalable, production-ready systems with strong focus on OWASP, APIs, UI testing, and Agile SDLC.

LANGUAGES

English
Proficient
● ● ● ● ○

Amharic
Native
● ● ● ● ●

SKILLS

| Python | C# | JavaScript | TypeScript |

| C++ | React | Dart | Django |

| ASP.NET |

| ADO.net | Flutter | CNN | RNN | LSTM |

| TensorFlow | Keras | Jupyter notebook |

| kafka | Flask | Pygame | Selenium |

| Playwright | Cypress | Postman |

| Docker | MSSQL | PostgreSQL | MySQL |

| SQLite | IIS/Kestrel | AWS EC2 | Asana |

| Github | Git | Git Action | Jira | Trello |