

# MIKIAS GEBRESILASIE GEBRETSADIK

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## PROFESSIONAL SUMMARY

Computer Science graduate (CGPA **3.98/4.0**) with strong full-stack engineering and machine-learning experience. Skilled in designing and delivering desktop, web, and AI systems using Python, C#, Java, PHP, JavaScript (React/Vue), Django, ASP.NET, and Docker. Proven track record in award-winning university projects, professional internships, and production-ready deployments (ERP, booking systems, ML diagnostics). Seeking roles in **Full-Stack Development, machine learning engineering, or DevOps-enabled application delivery**.

## CORE SKILLS

Category	Skills
Programming	Python, Java, C#, C++, PHP, JavaScript, TypeScript, HTML, CSS
Frameworks & Libraries	Django, Flask, Spring Boot, Laravel (Blade), ASP.NET (Razor, Blazor, WPF), React (Redux), Vue (Pinia), jQuery, Swing (JFrame), Pillow, gevent, gunicorn, h5py, TensorFlow
Databases / ORM	PostgreSQL, MySQL, MSSQL, Entity Framework, ADO.NET, Stored Procedures
Machine Learning & AI	CNN, RNN, LSTM (custom & bidirectional), NLP, LangChain, Deep Learning
DevOps & Deployment	Docker, IIS, Kestrel, Virtual Environments, Swagger, ngrok, Postman, Dev tunnelling, Containerized CI/CD basics, AWS EC2 Deployment
UML & System Design	UML Class/Sequence/Activity Diagrams, ERD Modeling, Architectural Documentation
Team & Communication	GitHub, GitLab, Jira, Trello, Slack, Microsoft Teams, Zoom, Agile/Scrum Collaboration
Tools	Git, VS Code, Visual Studio, PyGame (simulation), ERPNext, Performance Tuning, Figma (UI/UX mockups), Draw.io (system diagrams), Lucidchart, StarUML, E-draw, Visio
Personal & Soft Skills	Dedication, Strong Problem-Solving Ability, Team Collaboration & Motivation, Critical Thinking, Adaptability, Effective Communication, Leadership in Group Projects, Continuous Learning & Research Orientation

## EXPERIENCE

**Paid Dockerized Django Backend Developer Intern** — *Infra Tech Software Company* | Addis Ababa, Ethiopia  
*Sep 2024 – Jan 2025*

- Contributed to the **Gold Inventory Management System** by building and maintaining backend modules using **Django** in a containerized **Docker** environment.
- Assisted in **integration and testing**, ensuring smooth communication between backend services and frontend components.
- Collaborated closely with the product team to refine requirements and deliver production-ready features.
- Supported **deployment of applications on AWS EC2 instances**, optimizing configuration for availability and scalability.
- Utilized **StarUML** for system modeling and architecture documentation, improving project maintainability and communication across the team.
- Using **Docker** for dev containers and **ngrok** for tunnelling; **Postman** for API testing.

**Remote Full-stack Developer** — *Custom Mini-ERP* | Addis Ababa, Ethiopia  
**March 2025 – Present**

- Developing school management ERP with modular **React frontend** and **ASP.NET backend**.
- Integrated APIs, authentication, and role-based access control.
- Managed **deployment and hosting** using **IIS**, and upgraded to **Kestrel web server** to improve **security, performance, and reliability**.

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## EDUCATION

**Bachelor of Science in Computer Science** — *Saint Mary's University*  
CGPA: **3.98/4.0** | Graduated with Very Great Distinction

- **Awards:** Highest recognition in Computer Science program.
- **Exhibitions:** Presented projects at Saint Mary's ICT Expos (8th & 9th).

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## SELECTED PROJECTS

- **AAU Multimedia Booking System** — Laravel → Django & React, Dockerized  
Upgraded system for performance and maintainability; implemented containerized backend & frontend for scalable deployments.

- **Pneumonia Detection (CNN, Flask)** — Award-winning University project built a CNN-based medical image classifier; presented at ICT exhibitions and received recognition.
  - **Supermarket Management (Java, Desktop)**  
Team project for sales & inventory; showcased at university exhibitions.
  - **School Timetable & Attendance System (ASP.NET, AJAX, Stored Procedures)**  
Senior project implementing timetable generation and attendance automation.
  - **Traffic Flow Prediction (RNN / LSTM, Bi-LSTM)**  
Designed models to capture temporal-spatial patterns in traffic datasets.
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## CERTIFICATIONS & HONORS

- **Verified Online Machine Learning Course** — Simplilearn
  - **Verified Online Python Course** — Simplilearn
  - **Nanodegree Program Completion** — Android Developer Fundamentals
  - **8<sup>th</sup> and 9<sup>th</sup> Saint Mary's University ICT Expo Awards** — Saint Mary's University
  - **Golden Cup Award and Recognition certificate — Highest Academic Achievement, Computer Science Department** — Awarded for graduating with the highest CGPA (3.98/4.0), recognizing outstanding academic excellence.
  - **Recognition — AAU Multimedia Booking System** — Acknowledged for successful design, deployment, and upgrade (Laravel → Django + React, containerized with Docker) with strong dedication to performance and scalability.
  - **Recognition — Remote Custom Mini-ERP (React + ASP.NET)** — Credited for significant contributions to **frontend/backend integration, API development, and new feature delivery** for a school management ERP, demonstrating strong dedication, teamwork, and problem-solving skills.
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## LANGUAGES

- **English:** Upper Intermediate (B2)
- **Amharic:** Proficient (C2)