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EDUCATION

Bachelor of Science in Software Engineering,

Mar 2022 – Jun 2026 | Adama, Ethiopia

Adama Science and Technology University

- Enrolled in an **ABET-accredited** program, offering a curriculum that adheres to top-tier engineering education standards.
- Relevant Coursework:** Advanced Java, Mobile Application Design and Development, Object-Oriented Programming, Data Structures and Algorithms and Fundamental of Programming(C++).

Competitive Programming and Coding Academy,

Dec 2023 – Sep 2024 | Adama, Ethiopia

Africa To Silicon Valley | A2SV - Backed by Google (twice)

- Student at A2SV with a strong understanding of Data Structures and Algorithms(solved 1000+ problems on LeetCode and Codeforces) dedicating more than 1000 hours.

AWS Cloud Computing, ALX Africa

Enrolled in the Amazon Cloud Practitioner and Solutions Architect programs at ALX Africa, and completed the Professional Foundations course, building strong cloud and professional skills.

PROFESSIONAL EXPERIENCE

Mobile Developer, Eskalate, Flutter Internship

Aug 2024 – Sep 2024 | Adama, Ethiopia

- Contributed to the development of an **eCommerce** application by integrating real-time chat functionality using **Socket.IO**. Implemented **Clean Architecture** principles and wrote **130+** tests, ensuring robust functionality through **Test-Driven Development**.

PROJECTS

Fix It, Smart Learning with AI

Mar 2026

- Developed a full-stack application with a **Next.js** frontend and a **Golang** backend using clean architecture principles, while integrating **Generative AI** features and **MongoDB** for data storage.
- Implemented **unit tests**, deployed the application with **Docker**, and set up automated **CI/CD pipelines** for efficient and scalable deployment.
- Technologies Used:** Golang, Next.js, Docker, Generative AI, MongoDB

Number Recognition, Real-Time Number Recognition with CNNs

Sep 2024

- Built and Trained a High-Accuracy Convolutional Neural Network (CNN):** Started as a digit recognizer with **99.80% training accuracy** and **98.82% validation accuracy**, later enhanced to recognize full numbers by using **OpenCV's** watershed algorithm for segmentation. Developed a **GUI** for **real-time** predictions, with **multithreading** added to optimize system performance and minimize lag during live predictions with image uploads and a camera feed.
- Technology Used:** Python, OpenCV, TensorFlow, NumPy, Multithreading, Google Colab

Localize AI, Leveraging Generative AI to Benefit Ethiopians

Jun 2024 – Jul 2024

- Led the team as the **Lead and Backend Developer**, designing and developing a **RESTful API** using **Node.js**.
- Implemented a feature that allows users to interact with generative AI in their native Amharic tongue.
- Technology Used:** Node.js, Express.js, MongoDB, React.js, AI (Generative AI API - Google Gemini).

SKILLS

— **Programming Language** - Python, Dart, Javascript, C++, Java | — **Frame Work** - Node.js, Django | —
Computer Vision and Image Processing - OpenCV, TensorFlow | — **Database** - MongoDB, MySQL

AWARDS AND CERTIFICATES

A2SV Hackathon Semi Finalist, A2SV

The 2024 ICPC Ethiopian Collegiate Programming Contest

- Ranked 12th** out of over 50 teams in the **2024 ICPC Ethiopian Collegiate Programming Contest**, showcasing strong problem-solving skills and teamwork in a highly competitive environment.

LEADERSHIP

Localize AI

- I led a team of three members and guided it to achieve a top 8 ranking.