


# Nahom Tamirat

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## Education

### Bachelor of Science in Electrical and Computer Engineering,



Sep 2022 – Apr 2027

Addis Ababa Science and Technology 

- **Related Course:** Computing in Python, Object-Oriented programming, Probability and Statistics, C++ programming, Data structure, and Algorithm

### Africa To Silicon Valley, Coding Academy (Backed by Google)

Nov 2023 – Oct 2024

- A2SV graduate with a strong foundation in data structures and algorithms (Solved 750+ problems on Leetcode  and Codeforces )
- A2SV has placed over 50 students at leading tech companies including Google, Bloomberg, Databricks, Amazon, LinkedIn, and Square in the past four years

## Experience

### Backend Engineer, leptongames

Jan 2025 – present

- **Architected** and implemented 18+ RESTful API endpoints using **NestJS**, incorporating **microservice** architecture principles to develop 3 distinct services, resulting in improved system scalability and maintainability
- Engineered comprehensive request validation using class-validation and **NestJS** pipes, reducing error rates by 30% and enhancing API security and reliability
- Integrated **Supabase** for **authentication** and **PostgreSQL** for database management, establishing a robust backend infrastructure that supports seamless user authentication and data persistence
- Collaborated cross-functionally on full-stack development with **NextJS** frontend, ensuring consistent API interfaces and reducing integration issues by 25%

### Software Engineer Intern, Eskalate

Jun 2024 – Oct 2024

- Developed MVP using **Next.js**, **Redux**, TailwindCSS, and Firebase which increased page speed score by 15% as calculated by **Google** Lighthouse, improving user retention by 20% as measured by user engagement metrics
- Implemented testing protocols with **Jest** and **Cypress** which decreased bug reports by 15% in the first month as measured by Jira tickets, ensuring smoother deployments

### Software Engineer Fellow, Headstarter

Jul 2024 – Aug 2024

- Built 4+ **AI apps** and APIs using **Next.js**, **OpenAI**, Pinecone, and StripeAPI with 98% accuracy as seen by 1000 Users
- Led development of 4+ projects from design to implementation with 4 other engineers leveraging MVC design patterns, resulting in 20% faster development cycles as measured by project completion timelines.
- Coached by Amazon, Bloomberg and Capital One engineers on Agile, CI/CD, Git and microservice patterns

## Skills

**Technologies:** Proficient | Python | Django | Intermediate | Javascript | Nest.Js | React.js | FastAPI | Next.js | Beginner | Java

**Tools:** PostgreSQL | AWS | Supabase | PineCone (Vector DB) | OpenCV | Docker | Git

## Projects

### VisualFind, Hackathon Project

Sep 2024 – Sep 2024

- Led a team of 4 to create an AI-powered **image search engine** tailored for eCommerce, leveraging **vector search**, Retrieval-Augmented Generation (**RAG**), and **OpenAI** text-embedding models, achieving **95% search accuracy**
- Leveraged advanced embedding storage techniques through **PostgreSQL** pgvector functionality to optimize speed of data retrieval by reducing average response times from 500ms to just under 150ms across the application, **FastAPI** for the backendAPI, and **React** for the frontend, delivering a seamless user experience
- Achieved **Top 30** projects among 100+ teams in the **Microsoft RAG** Hackathon for showcasing strong technical skills



### Exam sheet-evaluator, Group Project

Feb 2023 – Aug 2023

- Developed a **computer vision** solution in Python using Flask to **automate exam** sheet evaluation, reducing teacher grading time by 85% and saving **15+ hours/week**, with **80%** grading accuracy
- Designed and built an interactive platform with **React.js** and Redux for state management, improving user experience and streamlining workflow, hosted on **AWS** for scalability and reliability
- Automated the Excel export feature for educators, facilitating the download of student performance and saving teachers an average of **5+ hours/month** previously spent on manual data entry

## Achievements

### 750+ Problems Solved on LeetCode and Codeforces

Codeforces  and Leetcode 

### Generative AI for Africa Hackaton, African to silicon valley