Abesolom Nekahiwot Beyene Full-stack Developer

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○ Github ⟨ Leetcode

EDUCATION

Addis Ababa Science and Technology University 🔗   10/2019 – 07/2024
Bachelor of Science in Software Engineering
- Developed skills in **Data Structures and Algorithm, OOP, Comupter Networking, Cloud Computing,** and **System Design and Analysis** through **hands-on projects.**

Africa to Silicon Valley 🔗   12/2022 – 10/2023
Advanced Data Structures and Algorithm Design
- Consistently ranked **top 3** in competitive programming contests.
- Solved over **900 problems** on leetcode and codeforces.

Holberton School, ALX 🔗   02/2022 – 03/2023
Software Engineering Program
- Completed a 12- month intensive software engineering program offered by ALX, specializing in backend development.

PROFESSIONAL EXPERIENCE

Backend Lead - Vertex   08/2024 – present
Africa to Silicon Valley (A2SV) 🔗   Addis Ababa, Ethiopia
- **Led the development** of a platform to teach Advanced Data Structures and Algorithm Design inspired by **LeetCode**, supporting **5+ programming languages** for code submissions.
- Implemented **real-time** time and space complexity evaluation.
- Increased user engagement by **40%** through leaderboards and competitions.
- **Tech Stack:** DotNet, PostgreSQL, C#

Community Coordinator   05/2024 – 02/2025
Africa to Silicon Valley (A2SV) 🔗   Addis Ababa, Ethiopia
- Taught **50+ students** Data Structures & Algorithms, increasing average problem-solving accuracy by **35%.**
- Analyzed **100+ coding contests**, identifying key patterns to improve student performance.
- Designed **10+ structured learning paths**, covering essential competitive programming topics.
- Provided **1:1 guidance** to **20+ students**, leading to a **30% improvement** in contest rankings.

Backend Developer Intern   07/2023 – 09/2023
Eskalate 🔗   Addis Ababa, Ethiopia
- **Led the backend development** of a social feature inspired by X (formerly Twitter), addressing critical issues like fraud, misinformation, and harassment.

- **Integrated Generative AI** for automatic post tagging and fraud detection, resulting in a **200% increase in user engagement** and an **80% reduction in harmful content.**
- **Tech Stack:** DotNet, chatGPT, PostgreSQL, C#

PROJECTS

Radiovision 🔗
Project Lead | Backend Developer
- **Led the development** of a machine learning model to analyze **radiography images** for disease diagnosis.
- **Trained on 50,000+ images** of **lung and brain scans**, achieving **87% accuracy** in detection.
- Implemented **real-time 3D rendering** to highlight affected lung areas for precise diagnosis.

SKILLS

Languages & Frameworks
  C/C++, Python (Flask), JavaScript (React, Node.js, Express.js), C# (DotNet), PHP

Databases
  PostgreSQL, MongoDB, MySQL

DevOps & Cloud
  Docker, GCP , CI/CD

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

Ethiopian Collegiate Contestant 🔗   09/2023
International Collegiate programming contest

Gold Fellow   07/2023
Holberton School, ALX
- Proud to be an ALX Tech program top 5% graduate and esteemed Gold Fellow at The ROOM

African Digital Health Bootcamp 🔗   02/12/2023
Digital Health Africa

Backend Mentor 🔗
Google Developer Student Club (GDSC)
- Designed and taught a Node.js backend curriculum to 20+ students.
- Provided technical and strategic support to 3 teams during hackathons.