

# Fraol Bacha Megersa

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## EDUCATION

### Addis Ababa University

B.S. in Computer Science and Information System

Addis Ababa, Ethiopia

Expected Graduation, June 2027

- **Concentrations: Intelligence and Development**
- **Related Coursework:** Computing in C++, Data Structures & Algorithms, Objects & Design, Applied Maths, Artificial Intelligence, Object-Oriented Programming, Information Theory

## EXPERIENCE

### A2SV /African to Silicon Valley

Student & Community Leader

Addis Ababa, Ethiopia

Nov 2025 – Present

- Selected for A2SV, a competitive program connecting top African students to global tech companies.
- Solved 500+ LeetCode and Codeforces problems using Python and Java, with a focus on writing modular, type-safe, and object-oriented code.
- Strengthened expertise in algorithms, data structures, and backend principles through peer-led coding sessions and mock interviews.

### ALX Africa

Cloud Computing Fellow & Backend Developer

Addis Ababa, Ethiopia

Feb 2023 – March 2024

- Built a **medication dose tracker** using **Django** and **PostgreSQL**, deployed with **AWS S3**, **CloudFront**, and **RDS**.
- Designed a modular backend using Django and AWS, decoupling services (authentication, data processing) to enable independent scaling and updates., integrated **IAM** for secure access, and configured **CloudFront** for optimized performance.
- Designed type-safe integrations using Python's type hints and MyPy to enforce strict type checking across the Django backend, reducing runtime errors by 25%

### Paragon One

Extern

Remote- Online

Jun 2023– Dec 2023

- Built modular Python scripts using functional programming paradigms to analyze 20+ investment opportunities with AI and Crunchbase data.
- Boosted decision-making accuracy by 30% and team speed by 15% by optimizing recommendation logic in the backend.

## PROJECTS

### Farming Management app

Team Leader at **Reboot The Earth International Hackathons**

Addis Ababa, Ethiopia

Jun 2024 – June 2024

- Led a team to develop innovative AI solutions for **SDG 13** (Climate Action), resulting in a farm management app that became a **top 10** finalist in a competitive initiative, impacting over **500** farmers by improving their resource management.

### NASA International Space Apps Challenge

Project Manager

Addis Ababa, Ethiopia

Oct 2024 – Oct 2024

- Used satellite data and AI to create a **predictive** model for water management as Project Manager, empowering farmers with valuable insights. This initiative became a **top 5** finalist at the national level, addressing **SDG 6** (Clean Water and Sanitation).

## ACTIVITIES AND LEADERSHIP

### Ethiopian National Blood Bank

Coordinator

Addis Ababa, Ethiopia

July 2021 – Current

- Led a national blood donation initiative, organizing and maintaining structured donor data from over **400** collection centers, earning formal recognition for outstanding community impact.

## SKILLS

**Programming:** Python, JavaScript, Java, C++, Go, HTML/CSS, SQL, Node.js, React.js, Django

**Tools:** Git, PyCharm, AWS (EC2, RDS, S3), Jupyter Notebooks, GCC, Bootstrap