Elshadai Tegegn

Software Engineer

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Email | **LinkedIn** | **Github**

EDUCATION

BSC in Software Engineering
Addis Ababa University | AAiT
Sept 2018 - Ongoing

Major GPA – 3.7/4.0

- Operating Systems
- Computer Architecture
- Robotics
- Full-stack software development
- Mobile Application development
- Software project management
- Object Oriented Programming
- Data Structures and Algorithms
- IT security
- Distributed: System Programming & Object Database

Cornell, Maryland, Max Planck Pre-doctoral School'22
CMMRS | Certificate
1st, August 2022 - 7th August 2022

Global UGRAD scholarship program
Tennessee Tech Uni. | Transcript
January 2022 - May 2022

Top 2% Scholarship receiver for a 1-semester exchange program in the US

Dean's list: ML | Algorithms | Criminology | American Government

Competitive Programming
A2SV
Aug 2021 - Present

A2SV helps high-potential African students improve their skills, connect with top Silicon Valley companies, and make digital solutions to urgent problems in their home countries. The first group of A2SV students achieved a 70% success rate at Google internship interviews for summer 2022.

Consultation & Leadership
ShARE Program | Certificate
March 2020 - Jan 2022

- President of ShARE AAU/AAiT 2022 Program
- Consulted on the go-to-market strategy at Axiom Financials
- Did extensive research on the future of mobility after Covid-19 at Valeo

Backend Engineering
Gebeya Inc | Certificate
Dec 2019 - June 2020

PUBLICATIONS

Clément Bonnet, Daniel Luo, Donal Byrne, Shikha Surana, Vincent Coyette, Paul Duckworth, Laurence I. Midgley, Tristan Kalloniatis, Sasha Abramowitz, Cemlyn N. Waters, Andries P. Smit, Nathan Grinsztajn, Ulrich A. Mbou Sob, Omayma Mahjoub, **Elshadai Tegegn**, Mohamed A. Mimouni, Raphael Boige, Ruan de Kock, Daniel Furelos-Blanco, Victor Le, Arnu Pretorius, Alexandre Laterre. "Jumanji: a Diverse Suite of Scalable Reinforcement Learning Environments in JAX." ArXiv, Under review at NeurIPS 2023.

Tech Stack

Dart: Flutter | **C++** | **JavaScript**: NodeJS, ReactJS, ExpressJS | **C#**: .NetCore | **Python**: Django, Flask | **Mobile app dev**: Java, Kotlin | **Machine Learning & Deep Learning:** TensorFlow, Jax, Pytorch, CUDA | **Front-end:** HTML, CSS, Bootstrap | **Database management:** Oracle, PostgreSQL, MySQL, MongoDB | **AWS Cloud** | **Docker**

AWARDS

Huawei ICT Innovation 2021, 2nd place from Ethiopia: Link

Hult Prize Regional, 2nd place winner

Ethiopian Collegiate Programming Competition, top 15% from East Africa and Arab: Link

Transfer Multisort Elektronik: Internet of Things: Link

Ethio-Hacks, hackathon 1st place: Link

Top 0.01% Award from the National Exam of Ethiopia, 2018

LANGUAGES

Amharic – **Native**

English – **Fluent**

French – **Intermediate**

German(Deutsch) – **Beginner**

EXPERIENCE

Machine Learning Research Intern
[Instadeep Ltd](#) | **Remote**

January 2023 - July 2023

- Contributing to writing single file Jax-based RL algorithms in [Mava](#)
- Creating robust RL environments in [Jumanji](#)
- Developing and optimizing deep learning models using CUDA programming for improved performance on GPU-accelerated systems

Software Engineering Intern
[Amazon](#) | **Germany**

Oct 2022 - December 2022

- Worked on an end-to-end service to annotate images and browse image labels
- Implemented a frontend SPA using AWS' internal UI framework and a backend using AWS Lambda.
- Created the AWS CDK typescript code to deploy both the frontend and backend and provision additional AWS resources like connection to OpenSearch

Software Development Engineering Intern
[Audible Inc](#) | **US**

June 2022 - August 2022

- Worked on payment-related, sensitive features that had a correlation with multiple other projects
- Implemented a full-stack development of a feature that increased user sign-up by 16k/year

Summer Geometry Initiative - Research Intern
[MIT](#) | [Certificate](#) | **US**

July 2022 - August 2022

- Plane and Edge Detection using RANSAC: [Link](#)
- Revisiting Computational Caustics: [Link](#), [Link](#), [Link](#)
- Out-of-Context Data Augmentation for 3D Scenes

Back-end Engineer
[Eskalate](#) | **US**

Aug 2021 - May 2022

- Contributed to 11% of the backend development of [HakimHub](#)
- Took the initiative to lead the backend team for a week when no team lead was available

Automation Tester & Digitization Engineer
[QualityTaskForce](#) | **Poland**

Aug 2021 - March 2022

- Automation testing using Selenium, and Python for the [Plume](#) Mobile application
- Digitizing the company's processes thus increasing the process flow speed by 21%

COO, Co-founder, Full-stack Engineer
[Knovuslab](#) | **Ethiopia**

March 2020 - PRESENT

- Developed ride-hailing platform mobile app - [Motorride](#)
- Contributed to the biggest Ethiopian Tech news platform - [Shega](#)
- Designed the system architecture, developed and led the backend development team for a self-owned audio streaming platform - [NileStream](#)

Hobbies

Playing Basketball

Hiking

Writing - I blog on my [substack](#) page

Extra-curricular activities

Gebeya Inc
Vetting Expert

 (Vetted 150+ candidates in the process of joining the Gebeya marketplace)

Huawei
Campus Ambassador

 (Increased student engagement from 3.4% to 75.6% in a year)

ITSC inspire
GDG Addis
Women TechMakers Addis
Event Organizer

Project Chalk-the-talk
Project Coordinator

Addis Ababa University, Basketball team
Basketball player

BigDream Ethiopia
Content Creator

ICog Labs Ethiopia
Operational Support Intern

Girls Can Code
Volunteer Coding Instructor