

EDUCATION

Bachelor of Software Engineering, Adama Science and Technology University | ASTU CGPA: 3.85/4.0

EXPERIENCE

Assistant Lecturer December 2025 — Present
Dire Dawa University *Dire Dawa, Ethiopia*

- Architecting **UGO**, a university-funded full-stack mobile platform built with Flutter, Node.js, and Socket.io, featuring NFC/QR check-in and Chapa payment gateway integration across parent and driver user flows.
- Designing the system architecture, database schema, and REST APIs end-to-end; building and deploying both the Flutter frontend and Node.js backend.
- Leading and mentoring undergraduate software engineering students, reviewing code and guiding project architecture decisions.

Software Engineer Intern (Backend) October 2025 — April 2026
BrandSauce Marketing Technology *Accra, Ghana (Remote)*

- Built and scaled Node.js/Express REST APIs for a gamified marketing platform under live production traffic.
- Tuned MongoDB schemas and queries, improving latency and data reliability at scale.
- Provisioned AWS EC2 and Hetzner Cloud infrastructure for zero-downtime deployments.

Software Engineer Intern July 2024 — September 2024
AfronNex Tech Hub *Dire Dawa, Ethiopia*

- Built a Property Management System for tenant records, rent tracking, and maintenance scheduling with fine-grained role-based access control.
- Integrated REST APIs with responsive UI components, improving navigation and reducing error rates.

Full Stack Developer June 2024 — April 2025
CaravanDire Hotel *Dire Dawa, Ethiopia*

- Built and deployed a MERN-stack (React, Node.js, MongoDB) hotel booking and inventory system handling reservations, payments, and multi-role access.
- Designed REST APIs for real-time availability and booking workflows, with Firebase-authenticated role-based access control.
- Set up CI/CD with GitHub Actions on AWS EC2/Nginx; validated reliability through unit, integration, and end-to-end testing.

Teaching & Mentoring Since 2024
Horizon Educational Center, American Space, Independent *Dire Dawa, Ethiopia*

- Academic Coach** (independent, remote, since 2026), **Software Trainer** (Horizon Educational Center, since 2025), and **Volunteer Tutor** (American Space, since 2024): delivered programming and web development training and one-on-one academic coaching.

PROJECTS

UGO | Flutter, Node.js, Socket.io December 2025 — Present
Play Store

- Architected and developed UGO, a university-funded full-stack mobile platform, integrating Chapa payment processing and real-time features with Socket.io across parent/driver user flows.
- Designed system architecture, database schema, and REST APIs; implemented NFC/QR functionality end-to-end.

Zinkly (Frontend) (Backend) | Flutter, Node.js, Express, MongoDB, Stripe, Socket.io **October 2025 — Present**
App Store

- Developed a mobile platform for booking music courses with Stripe payment integration and a 10% commission model, supporting a multi-role system (Users, Musicians, Admins).
- Designed REST APIs with Express/MongoDB and integrated Socket.io for real-time messaging.

Moments | Node.js, Express, MongoDB, AWS **October 2025 — Present**

- Built backend services for a gamified marketing analytics platform deployed to production at BrandSauce.
- Engineered REST APIs with Node.js/Express, tuned MongoDB schemas, and deployed infrastructure on AWS EC2 and Hetzner Cloud.

Dire Mart (Backend, Mobile, Web) | Flutter, React.js, Node.js, Express, MongoDB, Cloudinary **November 2024 — Present**

- Built a full-featured e-commerce platform with a Flutter mobile app, React.js storefront, and MERN admin dashboard.
- Designed scalable REST APIs with JWT authentication; integrated Cloudinary for image management and multi-language (i18n) support.

Money Pulling (Dashen Bank App) | Flutter, Dart, REST APIs, Sandbox Integration **November 2024 — May 2025**

- Developed a thesis project introducing a "money pulling" concept for bank-to-wallet fund transfers, integrating a Dashen Bank sandbox payment gateway.
- Built a Flutter/Dart wallet system with real-time balances, transaction history, and pull-based payment requests.

ACTIVITIES

Mastercard Foundation & ASU Scholar **2026**
Technology and Innovation Scholarship *W. P. Carey School of Business*

- Awarded a fully-funded graduate certificate in AI in Business through the Mastercard Foundation and Arizona State University.

Copyright Registration — UGO Platform **June 2026**
Ethiopian Intellectual Property Authority *Registration No: 8/1/00298*

- Officially registered UGO as copyrighted intellectual property under the Ethiopian Copyright and Neighboring Rights Protection Proclamation No. 410/1996.

WomenInTech Hackathon **April 2024**
Second Place Winner *Ethiopia*

- Built and presented a functional prototype under time constraints at a national hackathon for women in tech.

CSEC ASTU (Competitive Programming Club) **Jan 2023 — Jan 2025**
Active Member *Adama, Ethiopia*

- Solved algorithmic problems on Codeforces and competed in coding contests, collaborating with peers on data structures and optimization.