

# TSEGA EPHREM

## Software Engineer (AI stream)

A Software Engineering student in the AI stream at Addis Ababa University, I'm passionate about artificial intelligence, autonomous systems, and AI-driven IoT solutions. I'm also capable of full-stack development, with strong skills in frontend development, backend integration, and UI/UX design. I'm eager to apply my skills to real-world projects, learn from professionals, and grow as a software and AI engineer.



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## Technical Skills

- Languages: Python, JavaScript, Dart, Kotlin
- Frontend: React.js, HTML, CSS, Tailwind
- Backend: Node.js, Express.js, Flask
- Database: MongoDB, PostgreSQL
- Mobile: Flutter, Kotlin (Android)
- Tools: Git, GitHub, Figma, VS Code, Android Studio

## Education

**Addis Ababa University — B.Sc. in Software Engineering (AI Stream)** 2022-2027

- Relevant coursework: Full-Stack Web & Mobile App Development, Operating Systems, Computer Architecture, Databases, Networking
- Currently learning: Machine Learning, Mathematics for AI, Social Network Analysis, Robotics

## Experience

March 2025 - present

**Cyber Vanguard Club – Addis Ababa University**  
Marketing & Communication Lead

- Led marketing, event promotion, and outreach for cybersecurity programs, managed communications with members and mentors, and boosted club visibility through social media and student engagement.

## Certifications

- Web Development – Coursera
- Introduction to AI concepts – Microsoft badge
- Machine Learning concepts – Microsoft badge
- Python 101 for Data Science – IBM Developer Skills Network
- Graphic Design Essentials – Canva
- Professional foundation – ALX Africa
- Leadership – Kibur college
- ProDev Backend Development course – ALX Africa

## Projects

### Trackie [live demo](#) / [GitHub](#)

Full-Stack Developer

- Built a full-stack productivity app for students with React.js, Node.js, and MongoDB. Features include task tracking, resource links, and daily planning.

### CyberVanguard Telegram Bot [live channel](#) / [GitHub](#)

Python Developer

- Developed a Python-based Telegram bot that scrapes and posts cybersecurity news automatically. Implemented web scraping, scheduling, data parsing, and Telegram Bot API integration.

### Hack the Campus [live demo](#) / [GitHub](#)

Full-Stack Developer

- Interactive cybersecurity game from a 2-day hackathon. Players explore a virtual campus and solve challenges in cryptography, web exploitation, and SQL injection.

### Nexus [GitHub](#)

Full-Stack Developer

- Full-stack e-commerce website built with modern web technologies, featuring product listings, authentication, and order management.

### Campus Delivery Robot – Robotics Simulation

Full-Stack Developer

- Simulated an autonomous delivery robot using ROS, Gazebo, and RViz. Implemented navigation, localization, and path-planning in a virtual environment.

## Language

- English
- Amharic