

Birhanu Matebe Gerem

Electrical and Computer Engineer

 birhanumatebe12@gmail.com  +251918284184  Addis Ababa  GitHub

Education

Bachelor of Science in Electrical and Computer Engineering, 2022 – Present
Addis Ababa Science and Technology University Addis Ababa

- **Relevant Coursework:** Database systems, Object-Oriented-Programming(java), Data Structure, Computational Method.

Coding Academy, Google Developer Group. |  2024 – 2025
• **Relevant Coursework:** java script, React.js, Next.js

Professional Experience

Electrical Engineering Intern, Addis Ababa Science and Technology University |  06/2025 – 09/2025
Addis Ababa

- Collaborated with the UI team to deliver a user interface aligned with design standards and project requirements.
- Developed a responsive, user-friendly mentorship platform optimized for seamless user experience.
- Implemented a role-based user management system for efficient access control and security.
- **Tech Stack:** React.js, JavaScript, Node.js, Tailwind CSS

Project

MindSpace, | React.js, django |  04/2025 – 06/2025

- Designed and implemented a clean, responsive user interface using React, Vite, and Tailwind CSS for a seamless cross-device experience.
- Developed intuitive user flows for authentication, wellness tracking, and forum interactions to enhance accessibility and engagement.
- Collaborated with the UI/UX team to translate wireframes into functional, visually consistent components aligned with modern design principles.

Integrated Engineering Team Project, Smart Irrigation System 09/2024 – 07/2024

- Smart Irrigation Engineered and implemented a smart irrigation system utilizing an Arduino controller to monitor soil moisture and automate plant watering.

Integrated Design Project, Smart Door Lock 06/2025 – 06/2025

- RFID and keypad password-based door lock system Developed an electronic access control solution using an Arduino controller, enhancing security through RFID and keypad authentication methods.

Student Mentorship, | React.js, javaScript, Node.js |  06/2025 – 09/2025

- Engineered a full-stack mentorship platform connecting students and mentors at AASTU, enabling structured academic and personal guidance through secure authentication and role-based access control.
- Developed key features including mentor-mentee matching, profile management, real-time chat, and administrative dashboards for monitoring engagement and verifying mentors.
- Improved student engagement and support by digitalizing the mentorship process reducing adjustment challenges for freshmen and promoting academic, emotional, and career development.

Skill

Tech - mysql, mongodb, REST API, Git, React | Skills: JavaScript, Python, C++, NodeJS, ExpressJs, Java