

Birhanu Matebe Gerem

Electrical and Computer Engineer

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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