

# TEBAREK SHEMSU

Software Engineer and Full Stack Developer

 tebarek29@gmail.com  +251929088050  Addis Ababa, Ethiopia  LinkedIn  Github  Portfolio

## SUMMARY

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Full-stack developer experienced in designing and deploying production-ready web platforms using React/Next.js and Node/NestJS. Known for delivering features that cut manual work, boost performance, and improve security at organizational scale. Skilled at translating business needs into reliable, user-friendly applications.

## EDUCATION

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### Bachelor of Science in Software Engineering

Addis Ababa Science and Technology University

Highlights: Capstone projects on scalable event and survey platforms; coursework in Data Structures, Algorithms, Database Systems, Operating Systems, and Machine Learning.

11/2022 – 06/2026

Addis Ababa, Ethiopia

## EXPERIENCE

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### Digital Addis

Full Stack Developer

08/2025 – 10/2025

Addis Ababa, Ethiopia

- Designed and launched “SurveyHub” and “CTI Events”, web platforms adopted by multiple organizations to manage surveys and events at scale.
- Optimized backend queries and caching in NestJS/Prisma, substantially improving API responsiveness and system stability.
- Implemented role-based authentication and transactional operations, ensuring secure, reliable data handling.
- Integrated QR-code registration, real-time notifications, and automated status updates, reducing repetitive tasks for event staff and administrators.

### Conquer Agency

Full Stack Developer

02/2025 – 08/2025

Addis Ababa, Ethiopia

- Built “Tigat.net”, an online learning platform used by a large base of learners, supporting smooth video streaming and resumable uploads for heavy course content.
- Enhanced authentication reliability and API throughput, improving the overall learning experience for end users.
- Collaborated with a cross-functional team of developers, delivering production features consistently within sprint timelines.

## Projects

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### Tigat.net

Developed an online learning platform that streamlined course management, improved user authentication, and enhanced educational resource delivery.

Achieved reduction in manual administrative tasks, boost in user satisfaction, and significant time savings for educators, institutions, and learners.

Technologies Used: React.js, Node.js, TypeScript, MongoDB.

### CTI Events

- Developed a comprehensive event management platform that simplified attendee registration and live engagement for organizations hosting events of varying sizes.
- Significantly streamlined organizer workflows and improved attendee experience.

Tech: Next.js, TypeScript, PostgreSQL, Better Auth.

### Survey Hub

Architected backend services enabling organizations to create, distribute, and analyze targeted surveys with higher response rates and faster turnaround times.

Tech: Nest.js, TypeScript, Better Auth.

## TECHNICAL SKILLS

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### Programming Languages

TypeScript | C++ | Python | JavaScript

### Databases

PostgreSQL | MongoDB | MySQL

### Frameworks & Libraries

Next.js | React.js | Node.js | Express.js | Nest.js | Bette Auth

### Tools & Platforms

Git | Docker