

# Ephrem Getachew

Software Engineer

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## EDUCATION

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### Bachelor of Science in Software Engineering

*Adama Science And Technology University* 

06/2020 – 07/2025 | Adama, Ethiopia

- Relevant Courses: Agile and Test Driven Development, Software Architecture, Operating Systems, Web Application Development, Relational Database, Data Structure
- **CGPA:** 3.76/4.00

### Competitive Programming and Coding Academy

*Africa To Silicon Valley | A2SV - Backed by Google* 

12/2023 – 10/2024 | Adama, Ethiopia

- A2SV graduate with a strong foundation in data structures and algorithms (Solved 900+ problems on LeetCode and Codeforces) and hands-on experience in frontend development.
- Designed custom test cases to validate edge cases, optimize performance, and ensure correctness of solutions under strict time and memory constraints.

## PROFESSIONAL EXPERIENCE

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### Software Engineer

08/2025 – Present | Addis Ababa, Ethiopia

*Ethiopian Artificial Intelligence Institute* 

- Collaborate closely with cross-functional teams including backend developers, designers, and QA to implement responsive, user-friendly, and high-performance features.
- Participated in large-scale government projects, contributing to secure, mission critical systems.
- Apply best practices for code quality, documentation, and version control.

### Frontend Developer | Quality Assurance

06/2024 – 09/2024 | Adama, Ethiopia

*Eskalate* 

- Develop, test, and maintain software applications aligned with user and organizational needs.
- Analyze requirements, design software components, and implement solutions that ensure efficiency and functionality.
- Collaborate with cross-functional teams including developers, designers, and stakeholders to deliver quality software products.

### Full-Stack Developer

06/2023 – 10/2023 | Addis Ababa, Ethiopia

*Omishtu-Joy Tech-Solutions* 

- Collaborated with cross-functional teams to develop a user-friendly web application, improving user interaction within a 3-month timeframe.
- Enhanced application security and efficiency, reducing potential vulnerabilities.
- Verified web responsiveness and cross browser compatibility through manual testing

## PROJECTS

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### Civil Registration & Vital Events System (CRRSA)

*Frontend Developer*

- Contributed to the development and maintenance of a national civil services platform managing birth, marriage, death, and resident registration services.
- Integrated APIs with frontend modules, ensuring seamless data flow, accuracy, and performance under high user traffic.
- **Technologies Used:** React, NextJs, TailwindCSS, REST APIs

### Oromia Transport License Management System

*Full-Stack Developer*

- Participated in converting manual licensing processes into fully digital workflows, enhancing efficiency and transparency.
- Took part in implementing frontend interfaces for driver license management, including application submission, exam scheduling, result processing, and license issuance.
- **Technologies Used:** Nextjs, Tailwind, Nodejs, PostgreSQL

### Maintenance & Support Request Management Portal

*Full-Stack Developer*

- Took part in implementing a centralized maintenance and support ticketing system deployed across multiple bureaus and stakeholders.
- Contributed to structuring request handling, tracking, and resolution workflows.
- **Technologies Used:** React, Tailwind, NodeJs, PostgreSQL

## Unified Contactless Payment System For Buses — EthioPass

*Frontend Developer*

- Took part in the development of **EthioPass**, a secure RFID-based digital fare payment system enabling instant tap-and-pay bus transactions in Addis Ababa.
- Contributed to improving commuter experience by reducing manual cash handling, shortening boarding times, and supporting scalable, user-focused payment infrastructure.
- **Technologies Used:** React, Node.js, RFID Card, REST APIs

## SKILLS

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**Front End** — React.js, Next.js, SvelteKit, JavaScript, TypeScript, Tailwind CSS, Material-UI, Redux, Zustand | **Back-End** — Node.js, Go, Laravel, Ruby, Rust, Prisma, RESTful APIs, |

**Databases** — PostgreSQL, MongoDB, MySQL, SQLite, Firebase | **Tools & Others** — Git, Docker, VS Code, Vercel, Netlify

## CERTIFICATES AND ACHEIVEMENTS

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**Certificate of Recognition (Best Final Year Project 2025)** — Awarded for the best final year project: Unified Contactless Payment System for Bus and Train Transportation in Ethiopia.

**900+ Problems Solved on LeetCode and Codeforces | 2024** — Mastered algorithmic thinking through the successful resolution of over 900 problems on | Leetcode and Codeforces platforms

**Honorable Mention | The 2023 ETHCPC programming contest.** — Earned an Honorable Mention for participating in the ICPC Ethiopian Collegiate Programming Contest.