

# Eyosiyas Girma Retta

## Software Engineer

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📍 Addis Ababa, Ethiopia 🌐 Github 🎧 Medium in LinkedIn

🖱 website



## Profile

I am a seasoned and versatile Software Engineer with a strong aptitude for problem-solving and a passion for creating innovative software solutions. With a meticulous and disciplined approach, I consistently deliver reliable products that adhere to the highest quality standards. As a quick learner, I embrace new technologies and methodologies, ensuring that my work remains at the forefront of the industry. Additionally, my collaborative nature fosters positive relationships within teams, promoting open communication and a supportive work environment. With a dedication to continuous growth and a commitment to excellence, I am excited to leverage my skills and experience to drive impactful projects and contribute to the ever-evolving landscape of software development.

## Professional Experience

### Tiltek Technology PLC,

03/2023 – present

#### Senior Full Stack Software Developer

- Spearheading the development of a video streaming and selling platform, utilizing cutting-edge technologies to deliver high-quality user experiences.
- Designing and implementing end-to-end features, including user authentication, video playback, and payment processing.
- Creating RESTful APIs and backend services to facilitate seamless communication between front-end and backend systems.
- Developing Bulk SMS services, enabling effective communication with users for promotional and transactional purposes.
- Designing IVR UI to improve user engagement and optimize interactive voice response systems.
- Maintaining and enhancing existing projects to ensure continuous improvement and stability.
- Collaborating with cross-functional teams, including designers and product managers, to achieve project goals and deliver on schedule.
- Employing Agile methodologies to drive project development and meet critical milestones.
- Contributing to code reviews and providing mentorship to junior developers.

Technology Stack Used: JavaScript, React.js, Node.js, Sequelize, MySQL, Antd, TailwindCSS, RabbitMQ, Redis

### Addis Ababa Institute of Technology,

11/2022 – 03/2023 | Addis Ababa, Ethiopia

#### Part-Time Instructor

- Designed and implemented a comprehensive curriculum covering topics such as network communication, fault tolerance, consensus algorithms, and data replication.
- Demonstrated abstract concepts through real-time coding examples, making complex topics more tangible.
- Incorporated hands-on workshops for students to collaboratively design and implement distributed applications.
- Received positive feedback from students regarding the engaging and interactive teaching style.

- Demonstrated dedication to student success by creating an environment that promotes active participation and learning.

Courses Taught: Distributed System Programming

**Nigus Sport Betting, Software Developer**

07/2022 – 10/2022 | Addis Ababa, Ethiopia

- Designed visually appealing and user-friendly interfaces for web applications using React.js and Next.js.
- Leveraged TypeScript and Redux for state management, resulting in efficient and maintainable code.
- Successfully integrated front-end user interfaces with backend systems, ensuring seamless communication and data flow.
- Implemented robust client-side input validation to enhance data integrity and security.
- Collaborated with cross-functional teams to deliver high-quality software products in a fast-paced environment.
- Demonstrated problem-solving skills by identifying and resolving errors encountered during development.
- Utilized Git/GitHub for version control, enabling efficient collaboration and code management.

Technology Stack Used: TypeScript, React.js, Next.js, Redux, Git/GitHub

**Yazmi Technology Consultancy P.L.C,**

06/2021 – 09/2021 | Addis Ababa, Ethiopia

*Software Engineering Intern*

- Designed and implemented REST API endpoints using JavaScript and Node.js, enabling seamless communication between frontend and backend systems.
- Conducted comprehensive manual testing of API endpoints using Postman to ensure reliability and adherence to requirements.
- Demonstrated strong problem-solving skills by identifying and debugging errors encountered during the development process.
- Leveraged React.js and Redux Toolkit to build reusable and interactive user interfaces for web applications.
- Collaborated effectively with cross-functional teams to deliver quality software products within a fast-paced environment.

Technology Stack Used: JavaScript, React.js, Node.js, MongoDB, Git/GitHub

## Education

**Bsc In Software Engineering, Addis Ababa University**

07/2022 | Addis Ababa, Ethiopia

3.78 GPA

## Languages

English

Amharic

## Skills

### Back-end

#### Frameworks

Node.js, Nest.js, Express.js, .Net Core Web Api, Prisma, TypeORM, Sequelize, Mongoose, Swagger, SpringBoot

### Database

MySQL, Postgress, MongoDB

### Testing

Cypress, Jest

### Front-end

#### Frameworks

Flutter, React.js, Next.js, ReactToolKit

### CSS Frameworks

TailwindCSS, Material-UI, AntD

### Infrastructure

Linux, NginX, Docker, PM2

## Awards

**Honor Recognition (Very Great Distinction),** Addis Ababa Institute of Technology

**Certificate of Recognition of Volunteer Participation,** Addis Ababa Institute of Technology

## Interests

- Table Tennis

- Music

- Business

## Projects

### Virtual KENO System

A full fledged virtual KENO system. I created everything from scratch from designing the user interface to architecting the system. The system has overall 6 components. I also wrote a thermal printer wrapper to communicate with a thermal printer directly. It has also a mobile application for scanning tickets for redemption. Company registration and user management is also included in the project. It is meticulously designed and scalable.

### Talguu

As a Senior Full Stack Developer in a video selling/streaming web application, I leverage a versatile technology stack to deliver a robust and feature-rich platform. In the backend, I utilize MySQL as the database management system, ensuring efficient data storage and retrieval. To interact with the database and handle complex queries, I integrate Sequelize, an ORM (Object-Relational Mapping) library, which simplifies data manipulation and enhances code readability.

In the frontend, I employ Ant Design (antd) as the UI library, which allows me to rapidly create elegant and responsive user interfaces. The powerful and customizable components provided by antd facilitate a seamless user experience. Additionally, I harness the capabilities of Tailwind CSS, enabling me to build modern and visually appealing UI elements, ensuring consistency across the application.

To optimize communication between microservices and enhance scalability, I incorporate RabbitMQ as a message broker. This enables asynchronous message passing and ensures the smooth handling of tasks, promoting a seamless and responsive user experience.

With this versatile tech stack, I am able to design, develop, and maintain a cutting-edge video selling/streaming web application. I consistently strive to deliver high-quality code, efficient data management, and a user-friendly interface, driving the success of the platform and contributing to a thriving user base.

## Dereja Clone [↗](#)

02/2023 – present

Since February 2023, I have been actively engaged in developing a clone of the renowned website dereja.com. Utilizing a state-of-the-art technology stack, I have diligently worked to recreate its features and functionalities. Leveraging React, I crafted dynamic user interfaces that are both engaging and intuitive. Tailwind CSS facilitated rapid and customizable styling, resulting in a visually appealing and responsive design. Additionally, I employed Redux Toolkit (RTK) to ensure efficient state management and seamless data flow throughout the application. My ongoing commitment to this project showcases my dedication to delivering a high-quality user experience and demonstrates my proficiency as a developer.

Technology stack Used: React, Tailwindcss, RTK

Links To Project

- [GitHub Link](#) [↗](#)
- [Live Server](#) [↗](#)

## Corporate Ethiopia [↗](#)

Corporate Ethiopia is a feature-rich job listing web application developed using Django. This powerful platform offers an intuitive and user-friendly experience for both administrators and job seekers. Admins have complete control over managing companies and job listings through a streamlined interface, allowing them to efficiently post and update opportunities. Users can easily search, filter, and view job listings, enabling a seamless job-hunting experience. With Django's robust framework at its core, Corporate Ethiopia ensures secure data management and user authentication, making it a scalable and reliable solution for connecting job seekers with potential employers in Ethiopia.

Technology Stack User: Django

## Everything Addis [↗](#)

01/2023 – 01/2023

The e-commerce web application is a versatile and feature-rich platform designed to provide an exceptional shopping experience for both administrators and customers. With a robust set of functionalities, administrators can efficiently manage product categories, ensuring that the catalog remains organized and easy to navigate. The application also streamlines the order process, from accepting and processing orders to enabling users to track their order status, creating a smooth and convenient shopping experience. The analytics dashboard empowers administrators with valuable insights into business performance, enabling data-driven decision-making to optimize sales and customer satisfaction.

For users, the platform offers a seamless shopping journey with user-friendly carts and a streamlined checkout process. The integration with email and Telegram channels ensures effective communication, keeping customers informed about their orders and promotional offers. Developed with cutting-edge technologies, including React, Redux Toolkit (RTK), Nest.js, Prisma, RabbitMQ, Postgres, TypeScript, and Tailwind CSS, the application guarantees a responsive and visually appealing interface. The use of TypeScript ensures strong typing and code integrity, while Tailwind CSS allows for rapid and customizable styling. The combination of these technologies ensures a secure and performant web application that offers a delightful shopping experience for customers while empowering administrators with the tools they need to manage the business efficiently.

Technology Stack Used: React, RTK, Nest.js, Prisma, RabbitMQ, Postgres, TypeScript, TailwindCss

## Online Tracking and Scheduling for City Bus [↗](#)

The online bus scheduling system is a robust and user-friendly platform that revolutionizes the bus transportation industry. With its advanced features, bus provider companies can generate efficient schedules by analyzing and leveraging previous data, optimizing their operations for improved service delivery. The system's data-driven approach ensures better route planning, reduced wait times, and increased overall efficiency, ultimately leading to enhanced customer satisfaction.

Commuters, on the other hand, benefit from the real-time tracking and search functionalities, allowing them to access up-to-date information on bus locations and schedules. This empowers travelers to plan their journeys more effectively, making their daily commute more convenient and predictable. With the integration of cutting-edge technologies, the online bus scheduling system transforms the way people travel, making bus services more reliable, efficient, and accessible for both bus providers and commuters alike.

Technology Stack Used: Flutter, React.js, Node.js, OSRM, OpenStreetMap, Socket.io, Cypress, Jest

### **Cinema Addis**

The movie scheduling and cinema seat booking app is a comprehensive and user-friendly platform that revolutionizes the movie-going experience. With a host of powerful features, it simplifies movie schedule preparation, empowering cinema administrators to efficiently manage showtimes and optimize screening times based on demand and movie popularity. The app also allows administrators to create cinema halls and customize their layouts, ensuring that seating arrangements are both visually appealing and comfortable for movie enthusiasts.

One of the standout features of the app is its ability to generate QR code readable entrance tickets. This technology ensures secure and contactless ticketing, enhancing convenience and safety for moviegoers. Users can easily book their desired seats with a few taps on their devices, and upon arrival at the cinema, they can scan their QR code tickets for seamless entry. This not only expedites the check-in process but also reduces paper waste and enhances overall operational efficiency. With its cutting-edge technology and user-centric approach, the movie scheduling and cinema seat booking app redefines the movie theater experience, delivering a seamless and enjoyable journey from scheduling to ticketing for both cinema administrators and movie enthusiasts alike.

Technology Stack Used: React, Flutter, Node/ Express, MongoDB.