

Amanuel Daniel — Backend Node.js Developer

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🌐 Location: Addis Ababa, Ethiopia (Remote)

🔗 Portfolio: <https://portofolio-sand-beta.vercel.app/>

Profile Summary

Experienced Backend Developer specializing in **Node.js** and **Express** with a solid track record of building scalable, production-ready applications. I excel in designing clean RESTful APIs, managing databases (both SQL and NoSQL), and integrating complex real-time features. My work emphasizes maintainable, secure, and performant backend systems, complemented by practical knowledge in Docker containerization and API orchestration. I thrive in fast-paced environments where rapid development and high code quality are essential. With a collaborative mindset, I contribute effectively in cross-functional teams, delivering solutions that balance speed and reliability.

Core Skills

- Backend Development: Node.js, Express.js
- Database Management: Sequelize ORM, PostgreSQL, MongoDB
- Real-Time Communication: Socket.io
- Containerization & Orchestration: Docker
- API Design & Development: RESTful Services, Authentication, Payment Integration
- Version Control: Git
- Deployment & DevOps Fundamentals
- Collaborative Development & Agile Practices

Relevant Projects

1. Code Collab – Real-Time Collaborative Coding Platform

Code Collab is an innovative web-based platform enabling multiple users to write, edit, and execute code collaboratively in real-time, with functionalities mimicking VSCode. I architected and developed the backend using Node.js and Express, focusing on scalability and performance.

- Developed RESTful APIs to handle user authentication, project management, and session tracking.
- Implemented real-time synchronization using **Socket.io** to enable seamless multi-user code editing with live cursor tracking.
- Orchestrated isolated Docker containers dynamically for each user's project, managing container lifecycle and dynamic port allocation.
- Integrated version control features to manage project revisions and user sessions.
- Ensured secure, efficient communication between frontend and backend, facilitating smooth collaboration.
- Leveraged MongoDB for user data and project persistence.
- Collaborated closely with the frontend team using Next.js and Material-UI for a performant and intuitive UI.

Technologies: Node.js, Express, Socket.io, Docker, MongoDB, Git, [Next.js](#)

Link to Hosted Project Landing Page:

[Code-Collab Landing Page](#)

2. E-Commerce Platform Prototype

Developed the backend infrastructure for a secure e-commerce prototype, integrating dynamic product management and payment processing.

- Built scalable REST APIs with **Node.js** and **Express** for product catalog, shopping cart, order management, and user authentication.
- Used **Sequelize ORM** with **PostgreSQL** to design relational data models and ensure data integrity.

- Integrated the **Chapa Payment API** to handle secure and reliable payment transactions.
- Optimized backend performance to support simultaneous user requests and minimize latency.
- Implemented authentication and authorization to protect sensitive endpoints and user data.

Technologies: Node.js, Express, Sequelize, PostgreSQL, Chapa Payment API

3. University Project Management System

Created a full-stack project management application for university use to streamline project submissions, reviews, and evaluations.

- Designed and implemented RESTful APIs using **Node.js** and **Express** for managing projects, student data, and administrative workflows.
- Developed secure authentication and role-based access control systems for students and administrators.
- Utilized **MongoDB** to store and manage unstructured data related to projects and submissions.
- Ensured code modularity and scalability to support future feature expansions.

Technologies: Node.js, Express, MongoDB

Why I'm a Fit for This Role

- Proven experience delivering scalable and maintainable **Node.js backend systems** supporting real-time data and complex workflows.
- Strong database skills across relational and NoSQL systems, ensuring data integrity and performance.
- Skilled in container orchestration using Docker, enabling isolated and secure execution environments.
- Effective at designing clean, efficient APIs and integrating external services like payment gateways.

- Fast learner and proactive problem solver, delivering clean, bug-free code rapidly.
- Collaborative team player with excellent communication skills, adaptable to fast-moving and high-impact projects.

Portfolio

Explore my work and projects → <https://portofolio-sand-beta.vercel.app/>