Haile Dereje Alemu

Full Stack Developer

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EDUCATION

Addis Ababa University, *BSc. in Software Engineering* 2019 – 2024 | Addis Ababa, Ethiopia
Relevant Coursework: Distributed Systems, Database Indexing, Query Optimization, Scalable API Design, Machine Learning, Data Structures and Algorithms.

PROFESSIONAL EXPERIENCE

Spector Systems, *Backend Engineer* 2025 – Present | Remote
• Architected a multi-tenant ERP with strict data isolation and AWS S3 integration, while optimizing PostgreSQL queries

TwoRobots Gaming Platform, *Backend Engineer (Part-time)* 2024 – Present | Remote
• Designed MMR-based ranking algorithms and scalable Go/PostgreSQL microservices, implementing Redis caching to minimize matchmaking latency in high-concurrency environments.

Ministry of Education, *Full Stack Developer* 2023 – 2024 | Addis Ababa, Ethiopia
• Developed large-scale RESTful APIs and React/Next.js components while deploying cloud-native services on AWS/GCP to optimize database performance and streamline public-sector application development..

Freelance Software Engineer, Upwork & Fiverr 2023 – 2024 | Remote
• Delivered secure, full-stack architectures and cloud-native systems for international clients, managing the full project lifecycle and deployment across AWS, Azure, and GCP.

TECHNICAL SKILLS

Programming Languages — Go (Golang), Python, Java, C#, C++, TypeScript, JavaScript, Ruby, **Frameworks / Libraries** — Next.js, React, Node.js, Gin, Firestore Databases / Caching:, **PostgreSQL, Redis, MongoDB, Firestore Tools / DevOps** — AWS (S3, CodeCommit), Azure, Docker, Unix/Linux, Git, CI/CD

PROJECTS

Programming Learning Management System, *Software Project*
• Built a full-featured LMS with secure authentication and course management APIs, integrating AWS S3 for media hosting and optimized relational schemas to accelerate user queries.

Competitive Programming & Algorithmic Design
• Solved complex DS&A problems involving graphs and dynamic programming to architect efficient, real-time matchmaking and ranking systems.

LEADERSHIP & EXTRACURRICULAR

• Integrated Al-driven features and Python-based ML workflows into backend systems, optimizing digital content through high-resolution image enhancement and predictive modeling.