

Kitessa Fikadu Tefera

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EXPERIENCE

A2SV | Africa to Silicon Valley

Jul 2025 – Dec 2025

Software Engineer

Remote

- Delivered scalable RESTful APIs using Go, improving deployment reliability by 30% through automated testing, Docker containerization, and GitHub Actions.
- Increased API response performance by 25% by profiling endpoints and optimizing database queries.
- Reduced production defects by 20% by introducing unit and integration tests, and enforcing code reviews.
- Improved team development efficiency by streamlining API documentation and collaboration workflows using Postman and Agile Scrum/Kanban practices.

A2SV | Africa to Silicon Valley

Mar 2025 – Jun 2025

Software Engineer Intern

Addis Ababa, Ethiopia

- Improved multilingual accessibility for travelers by building a real-time translation app, resulting in faster and more accurate translations.
- Reduced application load time by 15% by integrating flight APIs to preload contextual travel data.
- Increased user engagement by 30% by designing responsive and interactive user interfaces following Clean Architecture principles.

EagleLion System Technology

Feb 2025 – May 2025

Software Engineer Intern

Addis Ababa, Ethiopia

- Reduced server response time by 18% by developing a modular backend API using NestJS, MongoDB, and optimized data handling techniques.
- Improved system security by implementing JWT-based authentication and role-based authorization.
- Streamlined payments by integrating Chapa, reducing transaction failures and improving checkout experience.

PROJECTS

RAG Based AI Knowledge System

- Designed and developed a full-stack RAG system for semantic document-based question answering.
- Integrated LLMs with vector databases to deliver scalable, low latency contextual responses.
- Implemented document ingestion pipelines with chunking, embedding generation, and efficient indexing.

Ecommerce and Brokerage System

- Engineered a platform combining e-commerce and brokerage services for Ethiopia's fragmented digital market.
- Integrated real-time chat using Socket.io growing user engagement by 20% within the application.
- Ensured reliability with Jest based unit and integration testing.

Time Series Weather Forecasting System

- Trained and deployed an LSTM based forecasting model using TensorFlow, achieving 83% accuracy.
- Processed multivariate time series data using NumPy and Pandas and exposed predictions using FastAPI.
- Validated model reliability with Pytest and production style API testing.

TECHNICAL SKILLS

Languages: Python, Go, JavaScript/TypeScript, C++, Java, SQL

Frameworks/Libraries: FastAPI, Django, Express.js, NestJS, Gin, Flutter, React.js, Nextjs, TensorFlow, Scikit-learn

Tools & Platforms: Git, GitHub, Docker, Jupyter Notebook, Windows, Linux, Postman

EDUCATION

Jimma University

May 2021 – Jun 2026

B.Sc. in Software Engineering, GPA 3.53/4.00

Jimma, Ethiopia

LEADERSHIP AND EXTRACURRICULAR

SPEC-JiT | Software Programming and Engineering Club

Oct 2025 – Present

Head of Competitive Programming

Jimma, Ethiopia