

TEMESGEN SIDA

Software Engineer

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PROFESSIONAL SUMMARY

Software engineer with a strong foundation in the Python ecosystem, focused on building high-quality, well-architected software through clean design patterns and thoughtful abstraction. Experienced across the full stack — from backend services and RESTful APIs to modern React-based frontends — with growing specialization in AI engineering, particularly Retrieval-Augmented Generation (RAG) systems. Proven ability to independently design, build, and maintain production-style projects end to end, including real-time platforms and developer tooling.

STRENGTHS & EXPERTISE

- Backend Engineering — designing scalable services with Django and FastAPI
- AI Engineering — building Retrieval-Augmented Generation (RAG) pipelines and AI-powered features
- Software Architecture — applying design patterns and high-level abstraction for maintainable, extensible systems
- Frontend Engineering — building responsive, user-friendly interfaces with React.js and Next.js
- Real-Time Communication — implementing live, low-latency features (e.g., live-streaming lesson platforms)
- API Development — designing and consuming RESTful APIs
- Database Management — relational (PostgreSQL) and non-relational (MongoDB) data modeling
- Containerization — packaging and deploying applications with Docker
- Cloud & Infrastructure — deploying and managing applications on Microsoft Azure

PROFESSIONAL EXPERIENCE

Independent Software Engineer — Personal & Self-Directed Projects

2026 – Present | Adama, Ethiopia

Independently design, build, and maintain a portfolio of production-style software projects, while continually deepening expertise in AI engineering, software architecture, backend, and frontend development.

- Built and deployed a real-time live-lesson platform, enabling live video/interactive teaching sessions with real-time communication features.
- Developed a software testing and monitoring tool tailored to the Python ecosystem, used for validating and tracking the health of in-development software.
- Currently building a website and companion mobile app that automatically surfaces actionable insights from users' emails, combining backend data processing with an intuitive frontend experience.
- Maintain a personal documentation and testing site to track progress and quality across ongoing software projects.

TECHNICAL SKILLS

- Languages: Python, JavaScript, Java
- Frameworks & Libraries: Django, FastAPI, React.js, Next.js
- Databases: PostgreSQL, MongoDB, Redis
- Tools & Platforms: Docker, Microsoft Azure, Git/GitHub
- Other: RESTful API design, UI design, Real-time systems, RAG / AI engineering

EDUCATION

Adama Science and Technology University--Bachelor's Degree — 2023/2024--2028 | GPA: 3.3