

Aymen Sileshi

Software Engineer

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PROFESSIONAL EXPERIENCE

Software Engineer

ULVIO DEV

01/2025 – 04/2026

Brussels, Belgium

- Built **Vandevelde**, an AI-powered business automation platform for a construction company using Fastify, Next.js, PostgreSQL, and pgvector. Contributed to AI quote generation from voice/chat via RAG and vector search, voice-based time tracking, automated email-to-delivery-note parsing, and passwordless WhatsApp auth across a multilingual (EN/NL/RO/SK) interface, reducing quote turnaround from hours to minutes.
- Contributed to **Jennes Automation**, a field-service platform for a Belgian roofing contractor using Fastify, Next.js, and PostgreSQL. Helped build an AI quote builder with RAG, audio input, and e-signatures, plus geo-based lead routing, route optimization, and automated WhatsApp/email digests that replaced manual back-office workflows.
- Contributed to **SignFast**, a multi-tenant SaaS platform digitizing notary workflows in Belgium using NestJS/Fastify, Next.js, PostgreSQL, and pgvector. Helped develop an OpenAI vision pipeline for extracting structured data from 38+ document types and auto-drafting legal contracts, alongside passwordless multi-party review and a bilingual (EN/NL) notary portal.
- Contributed to **Freya-Ergo**, an AI-powered occupational therapy platform using NestJS, Next.js 16/React 19, and PostgreSQL (Prisma). Helped deliver OpenAI structured outputs, a confidence-based readiness classifier, and an async BullMQ + Puppeteer PDF pipeline that automated therapist report generation and reduced consultation drop-off.

Full Stack Developer

Million-Trading PLC

06/2024 – 11/2024

Addis Ababa, Ethiopia

- Developed and optimized real-time web-based multiplayer applications using complex state management, event-driven architecture, and low-latency synchronization to deliver seamless interactive user experiences.

Software Engineer Intern

Emerald International College

01/2024 – 04/2024

Addis Ababa, Ethiopia

- Developed and optimized scalable, data-driven web applications for leishmaniasis case management, featuring complex form workflows, schema-based validation, responsive dashboards, and role-based interfaces using modern frontend architectures and reusable component systems.

EDUCATION

Bachelor of Science in Information Systems

Addis Ababa University, Ranked 9th in Africa, 1st in Ethiopia, Addis Ababa,

Ethiopia

- CGPA: 3.7
- Relevant Coursework: Data Structures and Algorithms, Distributed Systems, Operating Systems, Object-Oriented Design, Computer Architecture, AI Programming, Machine Learning

SKILLS

Advanced

JavaScript, TypeScript, NestJS, HTML & CSS, React, Next.js, Chakra UI, shadcn/ui, Webpack, Vite, Concurrency, WebSockets, RPC, gRPC, GraphQL, PostgreSQL, MongoDB, MySQL, Elasticsearch, Playwright, Puppeteer for scraping, Clean architecture work, Docker, Traefik, VPS, Git, GitHub, CI/CD, Monolithic & Microservices architecture, AI Integration, RAG (Retrieval- Augmented Generation)

Intermediate

Material UI, Angular, C, C++, Bash, Redis, Firebase, Testing with Jest & Mocha, Kubernetes, AWS, Figma