MIKIYAS SOLOMON ABRAHAM

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About Me

Backend-focused Full-Stack Developer building a multi-tenant Sales Force Automation platform used by field sales teams, and the Electronic Invoice Management System (EIMS) that connects it to Ethiopia's Ministry of Revenue through Kafka-based microservices. Works across Python (FastAPI) and the JavaScript ecosystem (React, Node.js, Next.js, Svelte) with PostgreSQL and Docker. Proven track record designing RESTful APIs, integrating payment and government systems, and owning delivery from architecture through deployment.

Education

BSc. in Computer Science — Mar 2021 - Feb 2025

HiLCoE School of Computer Science and Technology, Addis Ababa, Ethiopia

- Relevant Courses - Object Oriented Programming, Data Structures and Algorithm Analysis, Software Design and Architecture, Computer Systems Security, Artificial Intelligence, Computer Networking, Advanced Database Management

Work Experience

Software Developer, Blue Spark Business Technologies — May 2025 - Present

- Architected a multi-tenant Sales Force Automation platform with modules for Sales, Orders, POS, Finance, Warehouse, KPI, and Territory management.
- Containerized services with Docker and used Kafka for event-driven inventory sync and KPI streaming.
- Built real-time geolocation tracking, route optimization, and map integration for field sales teams.
- Implemented RBAC, JWT auth, and automated finance/invoice workflows with dynamic KPI dashboards.
- Built the sfa-registered, sfa-unregistered, and mor-integrator services and co-built the auth service for EIMS, a six-service Kafka system integrating with Ethiopia's Ministry of Revenue.

Web Developer, Atlas Corp — Nov 2024 - Mar 2025

MJ A Cole , My Music Media , Blue Collar , No Days Off

- Built and shipped responsive marketing websites for four brands under Atlas Corp, implementing UI/UX designs in HTML, CSS, JavaScript, and Figma.
- Improved mobile responsiveness and cross-browser compatibility across all four sites.
- Integrated booking, billing, and lead-generation features for Blue Collar Marketing.
- Deployed and maintained production sites on cPanel.

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Full-Stack Developer | Andro Solutions Mar 2025 - Present

- Contributed to StreamSynx, a real-time synchronized streaming platform built on WebSockets and serving 25,000+ users.
- Delivered full-stack SaaS and client applications end-to-end using FastAPI, Node.js, Next.js, React, Svelte, and PostgreSQL.
- Built secure authentication (JWT, OAuth, Better Auth) and integrated third-party services including Chapa Payments.
- Designed and deployed the Wonder Nest Daycare registration system, streamlining student enrollment and admin workflows.
- Led code reviews, sprint planning, and client collaboration; containerized and deployed applications with Docker to VPS and Vercel.

Skills

- Front End: React, Next.js, JavaScript (ES6+), TypeScript, Svelte/SvelteKit, TailwindCSS, HTML5, CSS3, Bootstrap
- Back End: Node.js, Express.js, NestJS, Python (FastAPI), Firebase, RESTful API Design, ASP.NET
- Database: PostgreSQL, MongoDB, SQL, SQLite, SQLModel, SQLAlchemy
- DevOps & Architecture: Docker, Kafka, Microservices, Nginx, GitHub, CI/CD, Selenium, Agile Methodologies, Automated Testing
- Tools: Figma, RESTful API Design, SEO optimization techniques
- Operating Systems: Windows, Linux
- Soft Skills: Communication & Collaboration, Adaptability, Problem Solving, Analytical Thinking, Detail-Oriented

Projects

SFA (Sales Force Automation) – Blue Spark Business Technologies, 2025–Present

- A multi-tenant Sales Force Automation platform built with FastAPI, covering Sales, Orders, POS, Finance, Warehouse, KPI, and Territory management; containerized with Docker, with Kafka for order/inventory sync and KPI event streaming.
- Features real-time geolocation tracking, route optimization, map-based territory management, RBAC, JWT authentication, and MOR-integrated automated finance and invoice approval workflows, plus KPI dashboards with dynamic timeline filtering.
  - Tech: FastAPI, Python, Svelte, SQLModel, PostgreSQL, SQLAlchemy, Alembic, Docker, Kafka, Nginx, Uvicorn, JWT
  - Link: bluesparksfa.bluespark.et

EIMS (Electronic Invoice Management System) – Blue Spark Business Technologies, 2026

- A multi-tenant electronic invoicing platform built on Ethiopia's Ministry of Revenue framework: six Kafka-connected microservices (auth, core, sfa-registered, sfa-unregistered, IBE, mor-integrator) with ABAC authorization, audit logging, and dead-letter queues.
- Built sfa-registered, sfa-unregistered, and mor-integrator, and co-built the auth service, letting SFA tenants issue MoR-compliant invoices.
  - Tech: Python, FastAPI, Kafka, PostgreSQL, Alembic, Docker, Pydantic, Pytest

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Easy Inventory – Smart Stock & Asset Dashboard, Independent Project, 2026

- A live inventory and asset valuation dashboard with instant CRUD operations, local-currency (ETB) tracking, and optimized media delivery.
  - Tech: Next.js, React, PostgreSQL, Drizzle ORM, Cloudinary
  - Link: easy-inventory-management.vercel.app

Wonder Nest Daycare – Registration System, Andro Solutions, 2025

- A secure student enrollment platform with a dynamic admin backend for a daycare center, featuring Google Maps integration and SEO optimization.
  - Tech: Next.js, Node.js, PostgreSQL, TailwindCSS
  - Link: wonder-nest-daycare.com

Kiko Pastry – Digital Menu, Independent Project, 2026

- A QR-code-accessible digital menu for a local pastry shop, built mobile-first for seamless in-store browsing.
  - Tech: SvelteKit, TailwindCSS
  - Link: kiko-pastry.vercel.app

Chewata Chat

- Real-time messaging app built with a teammate (2024): text and image exchange, user authentication, online presence indicators, and persistent conversations.
  - Tech: React, Node.js, Express, MongoDB, WebSockets, Tailwind CSS
  - Live: chewata-chatting.vercel.app

References

Mr. Surafel Berhanu Abegaz || MSc in Electrical, Electronics and Communications Engineering || PhD Student

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Email - surafel29693@gmail.com
Relationship - Direct Supervisor

Mr. Animaw Kerie || MSc, Doctoral Candidate

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