

Bisrat Beriso Wake

Software Engineer — AI/ML & Full-Stack

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Education

B.Sc. in Software Engineering — Addis Ababa University

Sep 2023 – Expected June 2028

Cumulative GPA: 3.91 / 4.00

Coursework: Data Structures & Algorithm Analysis, OOP, Database Fundamentals, Software Engineering, Web Design & Programming, Computer Organization & Architecture, Fundamentals of AI, Computer Graphics, Operating Systems & System Programming, Cybersecurity, Mobile Application Development, HCI, Discrete Mathematics, Applied Mathematics III, Networking, Electrical Circuits & Electronics

Experience

Application Software Developer — INSA

Jul 2025 – Present

- Contribute to a government technology project alongside senior developers, developing backend systems and APIs.
- Developed backend functionality for Legalink, a legal case management platform, including REST APIs for authentication, case tracking, and secure communication between parties.

AI Engineer Intern — iCog Labs

Nov 2025 – May 2026

- Completed intensive technical training and worked with senior research mentors on applied AI tasks, including YOLO-based object detection and Pattern Miner in the Hyperon framework.
- Built a hybrid SARIMAX–LightGBM time-series forecasting pipeline that combines statistical modeling with gradient boosting (GitHub).
- Implemented neural-network architectures from scratch, including a variational autoencoder (GitHub).

Data Structures & Algorithms Trainee — A2SV (Africa to Silicon Valley)

Jan 2026 – Jun 2026

- Selected for a competitive, intensive program focused on data structures, algorithms, competitive programming, and technical interview preparation.
- Competed in weekly contests and mock technical interviews, and reviewed peers' solutions to compare approaches and complexity trade-offs.

AI Training Software Engineer (Remote Freelance) — Revelo

Dec 2025 – Apr 2026

- Evaluated AI-generated code and pull requests across programming tasks for correctness, efficiency, and engineering best practices, giving structured feedback used for model training.

Projects

Endebeto — Experience Booking Platform — Co-Founder & Full-Stack Developer

- Co-founded an Ethiopian local-experience booking platform that connects travelers with local hosts; built most of the product, from system architecture to frontend and backend.
- Built end-to-end booking, host-listing, and authentication flows using React and Node.js/Express, with MongoDB Atlas for persistence; onboarded 40+ hosts, listed 110+ experiences, and processed 300+ bookings during the pilot, reaching 1,200+ users.
- Optimized queries with indexing and pagination, keeping typical API response times under 300 ms.
- Advancing the platform with ongoing development and pilot discussions supported by the Ethiopian Ministry of Tourism.

IACMS — Inter-Agency Case Management Platform — Backend Engineering Team Contributor

- Built core parts of a multi-tenant backend platform structured around 7 services covering API gateway, identity management, case workflows, auditing, integrations, notifications, and file management, serving 5+ agencies.
- Worked within a stack of Node.js, Express 5, PostgreSQL, Prisma, and Redis, implementing three authentication mechanisms (session, JWT, and API key) with scoped access controls across 60+ endpoints.
- Developed a real-time chat module over WebSockets with authenticated connections, per-case conversation rooms, and persisted message history, supporting 500+ concurrent connections in load testing.
- Contributed to a GraphQL partner API with scope and query-complexity controls, plus Kafka-based event processing and an outbox/webhook delivery pipeline for reliable event delivery.
- Supported Docker-based infrastructure and a GitHub Actions workflow that runs database migrations and 80+ automated tests on every change.

Technical Skills

Frontend:	HTML, CSS, JavaScript, TypeScript, React, Tailwind CSS, Shadcn UI, React Query, Redux Toolkit
Backend:	Node.js, Express.js, REST APIs, GraphQL, Supabase
Databases:	MongoDB, PostgreSQL, MySQL, Prisma
Languages:	JavaScript, TypeScript, Python, Java, C++
Tools & Infrastructure:	Git, GitHub, Docker, Redis, Apache Kafka

Achievements

- Solved 350+ algorithmic problems across LeetCode and Codeforces.
- Placed 3rd nationally in a mathematics competition organized by MySoroban Ethiopia.
- Certified for my work at Foka STEM Center (2022): built an Arduino/RFID ticketing and queue-management prototype with a desktop app for a national science and engineering fair.