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Portfolio

EDUCATION

Ethiopian Defence University, College of Engineering Bachelor of Science in Computer Science

Bishoftu, Ethiopia

Sep. 2024 - July 2028

- Relevant Coursework: Software Engineering, Data Structures and Algorithms, Advanced Databases, Object Oriented Programming, Data Communication and Computer Networks, Artificial Intelligence and Machine Learning
- CGPA: 3.75 / 4

Africa to Silicon Valley (A2SV) Data structure and Algorithm

Remote

January 2025 - Present

- Gained hands-on experience in Data Structures and Algorithms, backend development with Go, and intensive technical interview preparation focused on problem-solving and system design.

PROFESSIONAL EXPERIENCE

Ambalay Maps

Addis Ababa, Ethiopia

Backend Developer Intern

April 2025 - Nov 2025

- Designed and implemented advanced geo-location tracking features that improved operational productivity by 15%, enabling more accurate and timely deliveries.
- Contributed to backend optimization by migrating matrix and route optimization services from an existing Node.js codebase to Go, significantly improving performance and efficiency.

Olla Vibes

Addis Ababa, Ethiopia

Fullstack Developer Intern

April 2024 - July 2024

- Discovered and patched a directory-traversal vulnerability on the company's main domain by implementing strict path normalization, allow-listing, and input validation — remediated the issue before any exploitation.
- Built internal admin dashboards and analytics tools like role-based access, real-time metrics, exportable reports)to improve developer visibility and speed up incident investigation.
- Redesigned the public landing page for better UX, optimizing assets and layout — resulted in faster load times and measurable gains $\approx 18\%$ increase in sign-ups and $\approx 25\%$ drop in bounce rate.
- Implemented secure user authentication, including hashed passwords, JWT access/refresh flow, token revocation and rate-limiting, following OWASP best practices to harden account security.

PROJECTS

Image Processing Service | *React, Typescript, Express, MongoDB, Bun*

- Developed a full-stack Image Processing Service featuring user authentication, image upload, transformation (resize, crop, rotate, watermark, format conversion) and efficient retrieval.
- Architected the backend with scalable design patterns such as caching, async queues, wrote secure JWT-based endpoints, and optimized image workflows for performance and user experience.

Reed | *Express, Typescript, Redis, Bun*

- Developed a social-style tech feed delivering reel-like, swipeable tech content from Hacker News and top developer blogs, designed to make learning as engaging as short-form media.
- Engineered the frontend with React, TypeScript, and Tailwind CSS, and built a Bun-powered TypeScript backend integrating multiple APIs for seamless, high-performance content aggregation.

Caching Proxy | *Typescript, node-cache*

- Built Caching Proxy CLI, a high-performance Node.js + TypeScript tool that accelerates API response times through intelligent in-memory caching, cache status tracking, and seamless Docker deployment.

TECHNICAL SKILLS

Programming Languages: Typescript, Javascript Golang, Python, C, C++, AWS, Docker, Nginx, React.js, Next.js, Redis

Development Tools: Git, CI/CD, MongoDB, Postgres, Tailwind, Postman