Mohammed Shemim Awol

Addis Ababa, Ethiopia | +251955339467 | hammoudi.yousuf@gmail.com | linkedin.com | Github

EDUCATION

Addis Ababa Science and Technology University   **Jun 2021 - Jun 2025**
BSc., Software Engineering
- **Coursework:** web development, database management systems, object-oriented programming (Java), operating systems, mobile computing and programming, computer graphics, embedded systems, distributed systems, artificial intelligence and machine learning

Coding School, Africa to Silicon Valley (Backed by Google)   **Nov 2023 - Nov 2024**
Software Engineering Fellow
- **Achievements:** A2SV student with a strong background in Data structures and Algorithms (Solved 1000+ problems combined from Leetcode and Codeforces)

PROFESSIONAL EXPERIENCE

Icog labs   **Feb 2025 - Jun 2025**
Software Engineer, intern   *Addis Ababa, Ethiopia*
- Developed applied AI projects and conducted research tasks during a 4-month machine learning internship at iCog Labs, enhancing AI technology understanding and contributing to project advancements
- Participated in 10+ training sessions on advanced machine learning topics including neural networks, natural language processing, and model optimization.
- Engineered and maintained a biological knowledge graph (BioCypher-KG) using meTTa and Neo4j, integrating diverse datasets with a focus on data quality and consistency.

Evergreen Technologies   **May 2024 - Mar 2025**
Software Engineer, Co-founder   *Addis Ababa, Ethiopia*
- Led front-end development for 3 client projects, delivering responsive UIs, integrating APIs, and optimizing user experience.
- Integrated Odoo ERP into two projects using Django as the backend, leading to improved scalability and robust system performance.

Eskalate LLC   **Jun 2024 - Sep 2024**
Software Engineer, Intern   *Addis Ababa, Ethiopia*
- Collaborated with a team of five engineers to build the frontend of an online banking system using Next.js and TypeScript.
- Implemented Redux for state management and NextAuth for authentication to streamline workflows, and leveraged Agile methodologies, resulting in a 50% reduction in project delivery time.
- Achieved a 40% reduction in load times by combining partial loading with asynchronous data handling.
- Presented the project to a panel of judges, securing a top 4 finish in the evaluation.

PROJECTS

Blockchain-Based Bid Management System   **Dec 2024 - May 2025**
- Built a decentralized e-procurement platform to improve transparency in public bidding, designed for multi-role access (public users, bidders, officers).
- Developed 15+ RESTful APIs supporting core workflows: bid posting, proposal submission, evaluation, and user messaging.
- Logged key bidding events on Hyperledger Fabric, enabling traceability.
- Applied RBAC, TLS, and AES-256 encryption to enhance data security and role-isolated access.
- Designed a distributed backend using Kafka for asynchronous event handling and Docker for service containerization across 5 core modules.

InXtract   **Jul 2024**
- Initiated and worked in designing a research analyzing AI tool in a 13 day hackathon to help readers understand technical papers better.
- Led a team of 4 Software engineers while actively contributing to front-end development with Next.js and TypeScript, ensuring timely delivery of features.
- Developed a summarization feature using Google Gemini's API, cutting document reading time by 85%.
- Award: won 1st place in the A2SV internal hackathon 2023/2024, earning recognition as the best based on metrics including UI/UX, implementation, creativity, scalability, impact, and market potential.

MenuPlus   **Aug 2023 - Mar 2024**
Addis Ababa
- Collaborated with a team of 3 developers in the front-end development of MenuPlus, a food QR menu site and payment facilitation system for 50 restaurants across Addis Ababa.
- Integrated the backend endpoints using Fetch API, used the CHAPA (an online payment gateway in Ethiopia) API to receive payments in the system making seamless and efficient payment experience.
- Surveyed restaurant partners and users while managing budget allocation and revenue tracking.

TECHNICAL SKILLS

- **Frameworks/Libraries**: Express, Gin, Next.js, React
- **Programming Languages**: C/C++, GO, Java, JavaScript/TypeScript, PHP, Python
- **Tools**: Azure, AWS, Apache Kafka, Git/GitHub
- **Testing**: cypress, Jest
- **Database**: MySQL, MongoDB, Neo4j