

Israel Asefa

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EDUCATION

HiLCoE School of computer science

Bachelor of Science

Major in Computer Science

Cumulative GPA: 3.1/4.0;

Relevant Coursework: Data Analysis, Software Engineering; Operating Systems; Algorithms; Artificial Intelligence

Addis Ababa, AA

Feb 2022

WORK EXPERIENCE

NiteShiftSystems

Remote

Backend Engineer

Feb 2023 – Present

- Defined and documented functional requirements for Moongate and Niteshift systems, ensuring alignment with business goals.
- Designed system architecture and normalized database schemas for both systems, ensuring scalability and performance.
- Conducted object-oriented analysis to model system behavior and interactions effectively.
- Implemented authentication and user management services using Next.js 14 server actions and middleware.
- Developed an automated notification service to enhance user engagement and system efficiency.
- Built the art-teams sub-module for Moongate, enabling prompt posting by admins and secure file uploads.
- Created a user profile management module using Next.js 14 and PostgreSQL, improving user experience and data management.
- Designed and built reusable, complex UI components using Tailwind CSS and GSAP, ensuring consistency and interactivity.
- Developed user interfaces with Shadcn/UI and Tailwind CSS, delivering modern and responsive designs.
- Built an administration portal using spring boot and nextjs to oversee user interactions with Niteshift ,Moongate and jukebox, streamlining system management.
- Built a platform for musicians to post their music and track its popularity using Next.js, Drizzle Orm,Tanstack, and Supabase.
- Developed a full-stack e-commerce platform for a plant-selling client using Payload CMS, TanStack (React Query), Node.js, and Next.js with TypeScript.

ETTA Solutions

Addis Ababa, ET

Backend Engineer

Jun 2023 – Sep 2024

- Developed a robust SMS notification system using Spring Boot to enhance user communication, delivering timely alerts and improving user engagement by 25%. Integrated with third-party APIs for seamless SMS delivery.
- Built a comprehensive Tender Management system with Spring Boot to streamline procurement processes, bidding, and tracking. Reduced procurement cycle time by 20% and improved transparency in vendor selection.
- Implemented an Internal Transfer Tool using Spring Boot to facilitate efficient internal asset and resource management, resulting in a 15% reduction in operational delays.
- Successfully deployed Odoo to a production server, integrating it seamlessly with Spring Boot services to enhance functionality and improve system interoperability.
- Developed a Fixed Asset Management subsystem using Spring Boot, enabling robust asset tracking and management. Improved asset visibility and reduced loss by 10%.
- Integrated multiple payment platforms into Point of Sale (POS) systems using Spring Boot, enabling seamless payment processing and increasing transaction success.
- Set up and maintained test servers for SaaS products, troubleshooting and resolving issues to ensure 99.9% uptime and smooth product releases.
- Built and integrated payment components and wallet systems into SaaS platforms using Spring Boot, enhancing user experience
- Successfully integrated Mastercard hosted payment services using Spring Boot, enabling secure and compliant payment processing

- Developed a Document Signature and Verification service compliant with ERCA fiscal receipt standards using Spring Boot, reducing manual verification time by 90% and ensuring regulatory compliance.
- Created a wallet system for the Zmall providers application using Spring Boot, enabling seamless financial transactions and improving provider satisfaction by 25%.

Ahaz Software Solutions

FullStack Developer(part time)

Addis Ababa, ET

Feb 2021 – Dec 2022

- Revamped and modernized a deprecated React codebase, improving performance by 22% and enhancing developer productivity through cleaner, more maintainable code.
- Designed and built highly efficient and reusable React components, reducing redundancy and accelerating front-end development timelines.
- Refactored tightly coupled components into modular, sub-rendering components, significantly improving scalability and reducing system complexity.
- Resolved persistent rendering bugs caused by flawed state management logic, ensuring smoother UI performance and a more reliable user experience.
- Evaluated and compared multiple database technologies to select the optimal solution for project requirements, ensuring scalability and performance.
- Designed database schemas with clear relationships and constraints during the logical design phase, ensuring data integrity and efficient querying.
- Implemented the database as per the design, delivering a robust and scalable data storage solution.
- Developed back-end services using Node.js and Express, tailored to meet specific client requirements and functional goals.
- Gathered and organized user requirements to align system functionality with business objectives, ensuring client satisfaction.
- Optimized back-end response objects to streamline data fetching, reducing API response times.
- Developed a Human Resource Management System (HRMS) using Spring Boot, streamlining employee data management, payroll processing, and attendance tracking.
- Researched and integrated Zkteco biometric devices into the Human Resource Management System using Python, enhancing security and streamlining employee attendance tracking.

ADDITIONAL

Technical Skills: Java, Python, Typescript, Springboot, FastApi, Nextjs, Reactjs, Nodejs

Certifications & Training: Devops Practitioner, Kubernetes Development, Jenkins Administrator