

Yeabsera Yimer Wolle

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SKILLS

Java | Python | Javascript | Linux | Rest API | React | JUnit | C/C++ | Visual Studio Code | Git Version Control | Jira | React | AWS Amplify | Docker | Ansible | CI/CD

Soft skills: Critical thinker | SCRUM | Time Management | Strong communicator | Cross-Functional Collaboration

Language skills: English | Amharic

Security Clearance: SECRET

EXPERIENCE

Software Engineer I • L3Harris Technologies • Clifton, NJ

June 2023 - March 2025

- Designed and implemented backend services in Java to support real-time training workflows for satellite systems, ensuring high reliability and scalability in production environments.
- Built and modified Java service classes and RESTful APIs, conducting root cause analysis to eliminate recurring message data defects across satellite communication channels.
- Led the end-to-end development of a full stack user input application using JavaScript and Microsoft VBA, enabling Excel-based data import and improving input storage efficiency by 56%.
- Built and integrated full-stack application using React and Node.js, developing responsive front-end interfaces and connecting to secure backend services to simulate armed vehicle training displays in compliance with government standards.
- Applied test-driven development (TDD) to validate accurate parsing, formatting, and transmission of satellite telemetry data within the training platform.
- Wrote robust JUnit tests and leveraged Gradle for integration testing, streamlining deployment and enhancing stability by proactively identifying and resolving backend issues.
- Collaborated with cross-functional teams to design modular software components for a secure military vehicle training application, ensuring adherence to defense software standards.
- Led direct customer meetings to capture feature requests, training scenario needs, and operational feedback, translating them into backend requirements implemented in Java.
- Analyzed and decomposed system-level and software requirements to support overall software architecture design in alignment with customer training objectives.

Systems Engineer • L3Harris Technologies • Clifton, NJ

May 2022 - August 2022

- Applied Model-Based Systems Engineering (MBSE) principles using Cameo Systems Modeler (MVC) to architect software for a Network Switching SCI system responsible for managing critical data transfers—contributing to two successful model deliveries and securing next-phase government funding.
- Collaborated with cross-functional teams, including software, fire control, and survivability groups, to align SCI software architecture with overall system requirements and interface needs.
- Led work streams maintaining MBSE diagrams and architectural models for individual components, enabling clear traceability and system-wide coherence.
- Decomposed and analyzed software and system requirements to support the development of reliable, user-aligned components based on customer needs and operational constraints.
- Created and maintained comprehensive technical documentation to support data design, delivery, and long-term system sustainability.

Software Engineer Intern, General Dynamics Mission Systems, Fairfax, VA

May 2022 - August 2022

- Built navigation displays for a submarine training application using React and Node.js, contributing to frontend design and wireframe for further development, following strict compliance requirements in accordance to submarine failover status.
- Optimized UI performance and integrated features using JavaScript and Git workflows, supporting seamless deployment and system integration using agile methodologies
- Set up a Jenkins pipeline to automatically build, test, and deploy a simple Java web app pushed to Git repository.

PROJECTS

Dev-Ops Project, Software as a Service (SaaS)

Fall 2024

- Developed RESTful APIs with Flask to process and serve external data as JSON, ensuring scalable service communication.
- Containerized endpoints using multi-stage Docker files for improved cross-platform compatibility and streamlined deployment.
- Implemented automated testing with PyTest and automated deployments via Ansible Playbooks, reducing manual build time by 70%.
- Integrated CI/CD pipelines leveraging Docker and Ansible to enable continuous testing, container orchestration, and zero-downtime deployments.

Automated Key Info Extracting Application

Spring 2023

- Engineered dynamic, responsive React components to display extracted property features, ensuring a clean UI/UX and seamless integration with real-time data from the backend services, collaborating on full-stack architecture hosted on AWS Amplify
- Developed and connected Node.js API endpoints to receive property descriptions, trigger AWS Comprehend for NLP processing, and store extracted key phrases/entities.

EDUCATION

B.S. in Computer Science with Concentration in Software Engineering

Virginia Commonwealth University • Richmond, VA • 2023

National Society of Black Engineers

Senator, National Society of Black Engineers • Richmond, VA