

ALEMU TESHOME

Washington, DC 20001 • 641-233-9874 • alemu9teshome@gmail.com
<https://www.linkedin.com/in/alemu9teshome>

Software Engineer

Passionate full-stack Software Engineer with over five years of hands-on experience in software development, deployment, and testing across various programming languages. Proficient in building RESTful web applications using frameworks such as Spring Boot, Node.js, Express.js, Angular, ReactJS, and Django. Skilled in code reviews, software integration, SOAP, and microservices implementation. A strong advocate of unit testing and Test-Driven Development (TDD) to maintain code quality. Experienced in Agile and Scrum methodologies for efficient development and delivery. Demonstrated ability to optimize application performance and scalability using Object-Oriented Programming (OOP) Design Patterns. Familiarity with Docker and containerization technologies for streamlined deployment and scaling processes.

PROFESSIONAL EXPERIENCE

Career Note: I am available for full-time work as a W-2 or any employment while taking distance education courses on weekends to complete my master's degree in computer science. I expect to complete it by 04/2026.

Software Engineer at Woldia University, Woldia, Ethiopia (September 2017 — July 2023)

- Developed the University student registration and grading system using Java, digitizing the manual process and enhancing the overall performance of the faculty by manifolds.
- Utilized Java and Spring Boot framework to troubleshoot and resolve critical system issues, ensuring uninterrupted operations and business continuity.
- Conducted thorough testing and debugging of software components, reducing error rates and ensuring compliance with quality standards and best practices.
- Helped the software engineering students design the overall architecture of the academic projects, varying from monolith to microservices-based architecture.
- Actively participated in code reviews, providing constructive feedback and mentoring junior team members to foster professional growth and knowledge sharing within the team.
- Conducted thorough testing with JUnit to realize the goal of 90%+ code coverage set by the team to ensure robustness and reliability.
- Proficiently utilized Git and GitHub for version control, enabling efficient collaboration and code tracking.

Technologies Used: Java, Python3, Spring Boot, Spring Security, Spring Cloud, JavaScript, NodeJS, ExpressJS, React, Angular, MySQL, CSS3, HTML5, Eclipse, NetBeans, IntelliJ IDEA, Postman, Jupyter Notebook, PyCharm, Git, GitHub, Apache Kafka, Junit, Docker, Kubernetes.

TOP SKILLS

SDLC • Web Services • Design Patterns • Database • Microservices Architecture • Object-Oriented Programming • Concurrency and multi-threading • Dependency Injection • Version Control • CI/CD

Languages: Java, Python, C#, C++

Web: HTML5, CSS3, JavaScript, TypeScript, React, Angular

Web Services: REST, SOAP

Web/App Servers: Apache, Tomcat

Frameworks: Spring Boot, Spring Cloud, Spring Security, Spring MVC, Hibernate, NodeJS, ExpressJS, Angular, React, Django

Databases: MySQL, PostgreSQL, MS SQL, Oracle, MongoDB, SQLite, DynamoDB

Design Patterns: Singleton, Factory Method, Facade, Abstract Factory, Observer, MVC, Template

SDLC: Agile, Scrum, Waterfall, Iterative, Test-Driven Development (TDD), Acceptance Testing Driven Development (ATDD)

Tools: Eclipse, NetBeans, IntelliJ IDEA, PyCharm, Postman, Jupyter Notebook, Git, GitHub, GitLab, Apache Kafka, Junit, Docker, Kubernetes, Jenkins, Maven, Gradle, VS Code, Notepad++, sublime text, StarUML.

Platforms: Windows, Linux

ACADEMIC PROJECTS

Maharishi International University (2024) Event Tracking for Real-Time Unaware Sensitivity Analysis (Event Tracker): Designed microservices aimed to provide timely responses to external input stimuli in complex industrial systems such as manufacturing, healthcare, transport, and finance. I Utilized Java, Spring Boot, Service Registry (Eureka), API Gateway (Zuul), Load Balancing (Ribbon), Kafka, Distributed Tracing (Zipkin), Hibernate, JPA, RESTful Web Development, Maven, Azure Cloud, Docker, JUnit, MongoDB, and Web Security.

Maharishi International University (2023) Resort Management System: Developed a RESTful application for a resort management system, enabling customers to make reservations and payments for various options. I Utilized Java, Spring Boot, Kafka, Hibernate, JPA, RESTful Web Development, Maven, Azure Cloud, Docker, JUnit, and MongoDB.

EDUCATION

MSc. in Computer Science at Maharishi International University, Iowa, USA (04/2026)

Key Courses: *Software Architecture, Enterprise Application Architecture, Web Application Programming, Algorithm Analysis*

BSc. in Computer Science at Hawassa University, Hawassa, Ethiopia (06/2017)