MESERET AMARE

Fairfield, Iowa 52557
641.632.2014 • meseretamare24@gmail.com
www.linkedin.com/in/meseretamare24/

JAVA DEVELOPER

Experienced Java Developer with a focus on Software Development Consulting and Training. Expert in guiding successful data pipeline migration to AWS Cloud, backed by strong skills in Java, Spring Boot, Microservices, REST API, and J2EE. Proficient in frontend development using React, JavaScript, HTML, and CSS. Agile practitioner and automated testing advocate.

Software Development Life Cycle • AWS Cloud based Data Pipeline Design • Full Stack Development
Big Data • Microservices •

Languages: Java, C#, C++.
Web: JavaScript, HTML5, CSS3, Bootstrap, XML, AJAX, jQuery, JSP, EJB, Servlets, JUnit
Web Services: REST, SOAP, Microservices, JSON, AWS
Web/App Servers: Apache, IIS
Frameworks: TypeScript, ASP.NET, Spring (MVC, Boot, Security, Data, AOP, Dependency Injection, Cloud), Hibernate, Node.js, Express, React
Databases: Oracle, MS SQL, MongoDB, PostgreSQL, MySQL, DB2, DynamoDB, NoSQL
Design Patterns: MVC, Singleton, Prototype, Observer, Session, Session Factory, Façade, Chain of Responsibility, Adapter, Proxy, Template, Repository, Composite
SDLC: Agile, Scrum, RAD, Waterfall, TDD
Tools: Postman, Eclipse, VS Code, Spring Tool Suite, MS Visual Studio, StarUML, AWS Services, IntelliJ IDEA, GitHub, Bitbucket, Tricentis Tosca Automation, Apache Kafka, Apache Maven, JUnit, Mockito, Spring Framework, Hibernate, SonarQube, Continuous Integration (CI) / Continuous Delivery (CD), Jenkins, Git, DevOps
Platforms: Windows, Linux
Big Data: Spark, Hadoop

CAREER NOTE: Available for full-time, W-2 employment.

PROFESSIONAL EXPERIENCE

AUTOMATORS, Brno, Czech Republic • 2022

Software Consultant – Full Stack Developer

- Recommended tools and strategies, defining test plans and strategy documentation to ensure successful enterprise-level software development and automated testing for the client **Boehringer Ingelheim**.
- Exemplified unwavering adherence to coding standards, best practices, and industry-recognized design patterns (Singleton, MVC, Factory, Proxy), resulting in a highly maintainable and extensible codebase.
- Demonstrated exceptional communication skills and fostered seamless collaboration with product owners and stakeholders, leading to an accelerated project delivery schedule, with an outstanding average of 6-day early completions.
- Exemplified expert-level guidance in enterprise-level software development and automated testing, actively collaborating with development teams and product owners to deliver optimal tooling and strategies.
- Crafted and executed 11 Java and Python-based Proof of Concepts (PoC) to investigate and optimize data pipeline integration approaches.
- Successfully implemented cutting-edge CI/CD pipelines, harnessing the power of Jenkins to automate the swift deployment of resources across Dev, QA, and Prod environments.
- Engineered a game-changing data pipeline on AWS, elevating migration and quality predictions achieving a remarkable 97% accuracy. Employed best practices, innovative PoC, and cutting-edge technologies, propelling the organization to the forefront of data-driven excellence.

Technologies Used: *Java, React, Test Driven Development (TDD), Service-Oriented Architecture, Python, DynamoDB, Tricentis Tosca Automation Tool, Spring Boot, AWS Services, Jenkins, Git, Agile, NoSQL.*

SINGLECASE, Prague, Czech Republic ● 2019-2021

Developer | QA Engineer - Team Lead

- Pioneered automated testing and full-stack development for a legal technology application, establishing test environments and automation frameworks to ensure high-quality user experiences and prompt resolution of defects, resulting in a notable 10% increase in customer loyalty.
- Assisted in Spring Boot-based software application development, contributing to successful project deliveries.
- Mentored and guided a team of 3 junior developers, fostering their growth and professional development.
- Took the lead as QA team manager, utilizing expertise in Cypress and Postman for API testing to ensure robust software performance.
- Collaborated with domain experts to model domain entities, implemented bounded contexts and aggregates for improved maintainability and separation of concerns, while also closely collaborating with cross-functional teams to envision innovative legal tech solutions, harnessing Java and React for full-stack development.
- Designed efficient and scalable client-side and server-side architecture, optimizing application performance and data integrity.
- Leveraged Domain Driven Design (DDD) principles to architect backend microservices for a financial application, resulting in a modular and domain-centric architecture.
- Introduced event sourcing and CQRS (Command Query Responsibility Segregation) patterns to enhance data integrity and support real-time analytics, resulting in better decision-making capabilities for business users. Successfully decomposed a monolithic legacy system into microservices, achieving better scalability and fault isolation while aligning each service with specific business capabilities.

Technologies Used: *Core Java, Spring Boot, Object Oriented Programming (OOP), Domain Driven Design (DDD), Representational State Transfer (REST APIs), JavaScript, Typescript, SQL, Microservices, Cypress.io, Node.js, vue.js, VS Code, GitHub, Git, Terraform, Windows.*

HAWASSA UNIVERSITY – INSTITUTE OF TECHNOLOGY, Hawassa, Ethiopia ● 2013-2018

Software Developer

- Spearheaded the conception and execution of reusable services and web-based applications for a comprehensive Market Information system. This initiative facilitated seamless data collection, management, and dissemination across regions.
- Pioneered the adoption of Test-Driven Development (TDD) and rigorous unit testing practices, leading to an impressive 83% code coverage for the market information system.
- Achieved a noteworthy 15% reduction in average response time by skillfully optimizing Restful APIs, database queries, and algorithms.
- Drove efficiency improvements through meticulous coding analysis, streamlining both development and testing processes.
- Architected the backend utilizing REST API in conjunction with Java and SQL technologies, enabling seamless data communication with external interfaces.
- Collaboratively worked with Test Analysts, Business Analysts, and Developers to swiftly identify and rectify defects, ensuring the delivery of high-quality software.
- Provided effective supervision to a dynamic 10-member team, actively contributing across all phases of the software development life cycle.
- Proficient in Core Java, JEE, Spring Boot, Spring MVC, and Spring Security, harnessing these technologies to deliver robust solutions.
- Adeptly utilize CI/CD tools including GIT Bitbucket, Maven, Gradle, Jenkins, and Sonar, ensuring a seamless development and deployment pipeline.
- Skilled in scripting languages like Bash and PowerShell, leveraging automation to enhance workflows.
- Used MicroServices & Service oriented architecture (SOA), contributing to the creation of scalable and modular financial systems.
- Experienced in building Rest APIs with Java Spring Boot and Spring MVC, enabling efficient data exchange.
- Well-versed in Relational databases such as Oracle, PostgreSQL, and MySQL, ensuring data integrity and accessibility.
- Acquainted with messaging frameworks (MQ and Kafka) enhancing real-time communication capabilities.

Technologies Used: *Java, J2EE, Spring Boot, Spring MVC, Spring Security,* Test Driven Development (TDD), *JavaScript, SQL, HTML, CSS, MongoDB, MS SQL, MVC, Hibernate ORM, Spring Data JPA, and Agile development methodologies, Data Structures, DevOps.*

IBM (International Business Machines Corporation), Prague, Czech Republic • **2013**
International technology company.

Software Development Intern at IBM

- Contributed to DHL IT service development project, in testing, database design, and requirements analysis.
- Developed frontend components using web technologies (HTML, CSS, JavaScript) and implemented backend functionality (Java, PHP) to support server-side operations.
- Gained proficiency in working with IBM-DB2 database systems and handling data effectively.
- Collaborated with a diverse team, actively participating in project discussions, and generating comprehensive reports summarizing testing results and bug fixes.
- Contributed to system development on the IBM Cloud platform.

Technologies Used: *HTML, CSS, JavaScript, Java, PHP, IBM-DB2.*

ACADEMIC PROJECTS

Maharishi International University, Fairfield IA (2023)

- **Library Management System:** Designed and implemented software application to manage library operations. Utilized Java, Swing, Eclipse, MySQL, JUnit, and GitHub.
- **Movie Ticketing System:** Implemented dynamic and responsive web interfaces with HTML5, CSS3, and Bootstrap. Enhanced client-side interactivity using JavaScript and jQuery, data retrieval was achieved through Ajax. Optimized database operations with Postgres and leveraged EJS for efficient server-side rendering.
- **Mini Property Management System:** Designed and developed property management system using React and Spring. Utilized Spring framework, including Spring Boot, Spring Data JPA, Spring Security, and Azure Cloud. Employed PostgreSQL as database to store and manage property data.
- **Online Retail System:** Developed RESTful system of Microservices using various Spring technologies. Utilized Spring, Spring MVC, Spring Boot, Spring Data JPA, Spring Security and Spring Cloud Services. Implemented CI / CD practices for streamlined development and deployment processes.
- **Real-Time Data Aggregation and Visualization System:** Designed dynamic software system for real-time participation and presentation of data from real-time data platforms. Utilized Microservices architecture and included Real-Time Data Input Service (RTDIS), JSON Data Ripper Service (JDRS), and Presentation Service (PS).

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion June 2025)
Maharishi International University, Fairfield, Iowa

Key Courses: *Fundamentals of Programming Practice), Modern Programming Practice,*
Web Application Programming, Web Applications – Architecture and Frameworks,
Enterprise Architecture, Software Architecture, Algorithm.

Master of Science in System Engineering and Informatics – Information Management
University of Hradec Kralove, Hradec Kralove, Czech Republic

Bachelor of Science in Computer Science
Mekelle University, Mekelle, Ethiopia

PUBLICATIONS (6 publication in total)
(Presented to International Conferences**)**

1. Amare, M. Y., & Simonova, S. (2021). Global challenges of students' dropout: A prediction model development using machine learning algorithms on higher education datasets. In SHS Web of Conferences, Volume 129 (2021). EDP Sciences-Web of Conferences. DOI: https://doi.org/10.1051/shsconf/202112909001
2. Amare, M. Y., & Šimonová, S. (2021). Learning analytics for higher education: proposal of big data ingestion architecture. In *SHS Web of Conferences. Volume 92 (2021).* EDP Sciences-Web of Conferences. https://doi.org/10.1051/shsconf/20219202002