

Kaleab Tadewos Ero

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Full Stack Developer

Efficient Full Stack Developer with 4 years of professional experience ensuring optimal functionality and performance of frontend and backend applications. Contribute to all phases of software development life cycle while working with various teams to ensure data accuracy and quality. Skilled in implementing technologies such as Java, Spring, Hibernate, NodeJS, JavaScript, Angular, Jenkins, C#, HTML5, CSS3, MS SQL, MongoDB and AJAX.

Software Development Life Cycle • Java / Object Oriented Programming • Database Design
Frontend / Backend Development • Data Structures / Collections • User Interface

Languages: Java, JavaScript and C#

Web: JSP, Servlet, HTML5, CSS3, AJAX, jQuery, Bootstrap, Node.js, J2EE, Typescript, AJAX, JSON and RxJS

Web Services: RESTful Web Service API, JSON and Microservices

Web and Application Servers: Apache Tomcat

Technologies: Eureka, Hystrix, Object Relational Mapping (ORM), Inversion of Control (IoC)

Frameworks: Spring (MVC, Boot, Security, AOP, Data), Hibernate, Angular and Kafka

Databases: Relation Database (MySQL, MS SQL) and NoSQL (MongoDB)

Design Patterns: Singleton, Observer, Command Strategy, Composite, Factory, MVC, Proxy, Adapter, Dependency Injection (DI), Inversion of Control (IoC), Iterator, Session, Prototype, State, Template and Chain of responsibility, Circuit Breaker.

SDLC: Agile / Scrum, Waterfall, Jira and TDD

Tools: IDE (Visual Studio Code, IntelliJ, Eclipse, Spring Tool Suite and Microsoft SQL Server Management Studio), StarUML, GitHub, Postman, Swagger, Trello and Jira

Platforms: Windows 7 / 8 / 10, Linux, Docker, Kubernetes and Google Cloud Platform

PROFESSIONAL EXPERIENCE

Relocated to U.S., Enrolled in Graduate Studies and Seeking Employment

09/2019-Present

John Snow Inc., Addis Ababa, Ethiopia

04/2016-09/2019

Public healthcare and health system consultants.

Software Engineer

Ensured backend and frontend functionality as key code developer while managing service consumed by frontend, backend and database.

Tasks Performed:

- Implement and maintain Restful Web Services that provides data visibility across 20 large stores and more than 15,000 health facilities across Ethiopia.
- Manage production database and generate quality SQL reports for clients that can be used to make important decisions and data forecasting.
- Maintain and update huge production database of size more than 110 GB by maintaining entities relation, optimizing queries, creating optimal indexes and optimizing through materialized views
- Improve data accuracy provided by users by Implementing and maintaining front end applications with latest technologies and ensures competitive UI and UX design for better user experience.
- Avoid future problem by collaborating with team members, perform root cause analysis and code review.
- Taking a leadership role in small teams for delivering a project on time.
- Develop application based on Test Driven Development (TDD) technique and help improving code quality through Application Testing by writing unit, E2E and API tests.
- Mentor and provide feedback to other team members.

- Collaborate closely with my team members, interacting with users as necessary to clarify requirements and take responsibility for managing tasks while working on Agile Teams.

Achievements:

- Enhanced data visibility, quality and use by collaborating with MIS team that improves health of Ethiopians by expanding access to family planning, vaccines and medications that can cure lots of diseases.
- Significantly improved performance and qualities of backend, frontend and database systems with continuous troubleshoot and dedication of work.

Technologies Used: *Java, Spring Boot, Microservices, NodeJS, Mockito, Jest, Git, Jenkins, Docker, Angular, Typescript, Gulp / ETL, HTML5, CSS3, Bootstrap, MongoDB, Microsoft SQL Server, SQL Server Integration Service and Maven*

Shenzen Grentech RF Communication Limited, Addis Ababa, Ethiopia

08/2015-03/2016

Indoor Mobile Network Designer

Design a system to ensure sufficient mobile network inside places with low network coverage.

Tasks Performed:

- Identify buildings with shortage of mobile network.
- Communicate with targeted building owners with Indoor mobile network issue and negotiate with them to install Indoor Mobile Network system.
- Create a complete Indoor mobile network system design that perfectly fits and fixes the shortage of mobile network issue inside a building.
- Give training to new employers inside the company.

Achievements:

- Contributing to enhance Indoor Mobile Network issue across Ethiopia by designing and implementing a permanent fix that in turn increase Ethio Telecom user's satisfaction and increase revenue of Ethio Telecom by increasing the time users spend on their phone.

Devices and Technology Used: *AutoCAD, Visio, Site Master, Omni Antenna, Indoor Panel Antenna, Laser Distance Meter, Logarithm Period Antenna, Power Splitter*

ACADEMIC PROJECTS

Meditation Checking Appointment System, MIU (2020): Created platform for appointment and reservation system.

Technologies Used: *Spring Boot, REST, Spring Security and MySQL.*

Let's Explore, MIU (2020): Developed system to provide information related to tourist destinations.

Technologies Used: *Servlet, JSP, AJAX, jQuery, JavaScript, File System, Bootstrap 4, JSON, HTML5, Maven, Tomcat and Git.*

Library Management System, MIU (2020): Designed modules for library management application used to check in and check out books. **Technologies Used:** *JavaFX, Java 8, MySQL, Git and Eclipse.*

Shopping Island, MIU (2020): Developed application to facilitate online marketing.

Technologies Used: *Angular 9, JavaScript, MongoDB, Mongoose, Git, Node.js and JSON Web Token.*

Human Resource Management System, Jimma University (2014): Developed and implemented modules for HR system.

Technologies Used: *jQuery, C#, ASP.NET MVC and Entity Framework.*

PERSONAL PROJECTS

KELEM (2018): Perform DevOps tactic which is Continuous Integration and Continuous Delivery (CI/CD) of a system used to provide selected learning resources and tutorial.

Technologies Used: *Docker, Kubernetes, Jenkins and Google Cloud Platform.*

Pure Milk Delivery (2019): Developed system to manage delivery of high quality milk to society.

Technologies Used: *Spring Boot, Java, AJAX, JavaScript, Bootstrap, JSON, HTML, Angular 2, MySQL, Maven, Tomcat and Git.*

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 2022)

Maharishi International University, Fairfield, Iowa

Key Courses: *Fundamental Programming Practices, Modern Programming Practices, Web Application Programming, Enterprise Architecture, Modern Web Applications*

Bachelor of Science in Electrical and Computer Engineering - 06/2015

Jimma University, Jimma, Ethiopia