

YALEMSEW MEKURIAW

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MEAN STACK SOFTWARE ENGINEER

Junior full-stack developer with more than 2 years of independent contract experience building web applications leveraging Spring boot, Angular, Node.js, Express, and TypeScript. Demonstrated strong computer science fundamentals through proficiency in various design patterns and a thorough understanding of data structures and algorithms. Hands-on experience working with MongoDB and PostgreSQL databases. Owns a good understanding of enterprise-level applications, including the Spring Boot framework, making me a well-rounded developer with a blend of front-end, back-end, and enterprise knowledge. Excellent problem-solving skills round out my abilities.

Web Development • Data Structures and Algorithms • Object Oriented Programming (OOP)
UI/UX Design • Version Control • Web Framework

Languages: Java, TypeScript, JavaScript

Web: HTML, CSS, jQuery, Ajax, React

Web Services: RESTful

Web/App Servers: Apache Tomcat

Frameworks: Angular, Spring Boot, Express

Databases: MySQL, MongoDB

Design Patterns: Singleton, Proxy, Observer, Façade, Factory, Template, Adapter

SDLC: Agile

Tools: Git, IntelliJ IDEA, Eclipse, Visual Studio, ActiveMQ, Docker, Kafka, CI/CD

Platforms: MacOS, Linux, Windows

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).

SYNAPSE SOFTWARE SOLUTIONS, Addis Ababa, Ethiopia • 05/2021 – 07/2023

Junior Software Developer (part-time) (08/2021 – 07/2023)

Designs and Develops Frontend and backend applications based applications on Microservice architecture for Synapse Software Solutions

Achievements:

- Developed a student portal application using Angular (TypeScript) with SPA, client-side routing, reactive forms, and state management for a seamless, dynamic, and responsive user experience.
- Used BFF (Backend for frontend) design pattern using NodeJS and Express.js for efficient data processing, improving communication between frontend applications and microservices, and enhancing overall performance.
- Developed RESTful APIs using Express.js to ensure efficient and secure data management between user management, employee records, and payroll services.
- Implemented JWT-based authentication and authorization in a school HR app to manage user access control, ensuring that sensitive data and functionalities are protected based on user roles and permissions, boosting performance by >20% through reduced database calls.

Technologies Used: Spring boot, NodeJS, Express, JavaScript/TypeScript, HTML5, CSS3, SASS, MongoDB, Angular, CI/CD, JUnit, Mocha, Virtual Machine, Linux, Windows

Software Developer Intern (05/2021 – 08/2021)

Backend developer

- Developed a real-time bus location tracking app utilizing the built-in geolocation feature on users' phones.
- Achieved real-time bi-directional communication between the server and clients using Node.js with Socket.IO.
- Integrated Google Maps API for displaying real-time bus locations on a map interface.
- Utilized MongoDB to store and manage bus and user location data efficiently.

Technologies Used: JavaScript, Nodejs, Express, MongoDB, REST API

ACADEMIC PROJECTS

Maharishi International University (2024) Bike Renting App: Worked on a full-stack web application with a dynamic Angular frontend using RxJS to achieve a smooth, single-page application (SPA) experience. The backend utilized Node.js /Express.js to build a RESTful API, while MongoDB served as the central database for user registration and data storage. Utilized MongoDB, Nodejs, Express, Angular

Maharishi International University (2024) TikeTrendz: TikTrendz is a video analysis and statistics for TikTok, offering a platform to explore trending videos, analyze trends, categorize content for personalized viewing, and understand public sentiment through comment analysis. Utilized MongoDB, Nodejs, Express, Jquery, EJS,

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 06/2026)

Maharishi International University, Fairfield, Iowa

Key Courses: *Web Programming, Modern Web Application, Algorithms, Enterprise Application*

Bachelor of Technology in Electrical Engineering

Siksha 'O' Anusandhan University, Bhubaneswar, Odisha (2023)

CERTIFICATIONS

Best paper presentation award for the paper entitled Study of Fault in a Smart Grid Using ANNs.(Siksha 'O' Anusandhan 2023-05-27)