

ABRAHAM MEJA

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SOFTWARE ENGINEER

I am a Skilled Software Engineer with over 5 years of experience, in-depth knowledge of JavaScript, Python, and React, and a deep understanding of the software development lifecycles, including requirement, analysis, design, architecture, coding, testing, and deployment.

Domain-Driven Development • Test-Driven Development • Hexagonal Architecture • Event-Driven System
• Object-Oriented Programming • Microservices • Cloud Technologies • Agile Development

Languages: Python, Java, Typescript

Web: HTML5, CSS3, JavaScript, Bootstrap

Web Services: REST, SOAP, GraphQL

Web/App Servers: Apache/Tomcat, NGINX

Frameworks and Libraries: Angular, React, Express, Spring

Databases: MySQL, PostgreSQL, MongoDB

SDLC: Agile

Tools: Slack, Docker, Kubernetes, Docker Compose, Eclipse, Maven, TravisCI, Visual Studio Code, IntelliJ IDEA, Git, npm, PyTest, Jenkins, Postman, Chrome Developer Tools

Platforms: MacOS, Windows, Linux

Cloud: GKE, Cloud Storage, BigQuery, AppEngine, Pub/Sub, Cloud Build, Artifact Registry, Logging and Monitoring

Application/Software: Orbital (Restaurant management system), Alva App (Candidate assessment platform)

PROFESSIONAL EXPERIENCE

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

HireArt, Southlake, Texas, United States • 02/2024 – 4/2024

Generate quality data to test and improve Large Language Models(LLMs).

Advanced AI coder

Wrote scripts and small applications.

- I actively worked with programming languages such as Java, Python, JavaScript, and Typescript to create data to train different language models to improve their quality.
- I wrote code to test different LLMs and evaluate response quality. If the response doesn't match the quality standard, I rewrite it.
- Find weaknesses in the LLMs and other generative AI models.
- I analyze and visualize prompt responses and rate them according to the given dimension.

Technologies Used: *Python, TypeScript, JavaScript, React, Angular*

ALVA LABS, Stockholm, Sweden • 04/2021 – 12/2022

The core business revolves around the candidate assessment platform, which allows HR and talent acquisition teams to make faster, smarter hiring decisions.

Full-stack Engineer

We built Microservices and web applications.

- We utilized various Google Cloud Platform (GCP) services, such as Compute Engine, Kubernetes Engine, and BigQuery, to run services in the cloud, resulting in scalable cloud infrastructure.
- Developed backend services utilizing Python and automation scripts, resulting in efficient backend architecture and minimizing deployment time from hours to minutes.
- I contribute to building reusable and dynamic web applications using React and Typescript, resulting in engaging user interfaces.
- I participated in crafting a flexible API to fetch and manipulate data using GraphQL, resulting in adaptable data access.
- Implemented and maintained pub/sub patterns, message queues, and event sourcing to create resilient services, resulting in robust, fault-tolerant applications.

- I constructed services in a hexagonal architecture, separating core business logic from external dependencies, resulting in a modular and maintainable codebase.

Technologies Used: *GCP, Python, TypeScript, JavaScript, React, GraphQL, Event-driven development, Hexagonal architecture, Kubernetes, and Docker*

GRONSKA STADSODLING, Stockholm, Sweden • 01/2021 – 02/2021

Swedish tech company developing and manufacturing systems for indoor vertical farming.

Software Developer

Built vertical farming machine.

- I developed scripts for automation and IoT applications on Raspberry Pi, resulting in streamlined processes.
- I participated in designing a data collection system for various IoT sensors, including humidity, acidity, soil moisture, and RFID, resulting in efficient data gathering.
- I crafted interactive and user-friendly web interfaces using React, resulting in engaging user experiences.
- I contribute to implementing real-time communication through web sockets, resulting in instantaneous data transfer.
- Stored and efficiently managed data in a PostgreSQL database, ensuring data integrity and accessibility.
- I used Docker and Kubernetes technology to simplify application deployment and scaling, resulting in efficient deployment and scaling processes.

Technologies Used: *React, Nodejs, IoT sensors and Automation, Raspberry Pi, Python*

MED INNOVATIONS LTD, Addis Ababa, Ethiopia • 10/2018 – 07/2020

This company specializes in developing solutions for restaurant management systems.

Full-stack Engineer

Build front-end, backend, DevOps, and related tasks.

- I built interactive and dynamic web applications using React, resulting in engaging web interfaces.
- Designed reusable UI components and effectively managed application state, resulting in a modular and organized codebase.
- I developed RESTful APIs to simplify the creation of backend services and establish connections to databases using Loopback, streamlining backend development.
- I participated in creating reusable UI components and managed the application state, resulting in a streamlined development process.
- Set up CI/CD processes for delivering software changes, automating the build process, and enabling production deployment using Jenkins, resulting in efficient software delivery.
- Stored and efficiently managed data in a NoSQL database using Mongoose, ensuring data integrity and accessibility.

Technologies Used: *Nodejs, React, Loopback framework, Jenkins, MongoDB, JavaScript*

360Ground (Eldix IT Technology PLC), Addis Ababa, Ethiopia • 03/2017 – 07/2018

This company specializes in developing websites, mobile applications, and ERP systems.

Full-stack Engineer

Build front-end, backend, DevOps, and related tasks.

- I created interactive charts and data visualizations in the ERP system using Python, JavaScript, and ERPNext, which improved the overall user experience and made the interface more user-friendly.
- I designed and implemented reusable UI components, enabling a modular and organized codebase that enhances the ERP system's scalability and maintainability.
- I developed RESTful APIs using Node.js and the Loopback Framework, simplifying backend development and enabling seamless database connections.
- I constructed cross-platform mobile applications with React Native, ensuring a consistent and engaging user experience across various devices.
- I conducted successful testing procedures for the application, improving its reliability and functionality and enhancing overall software quality.

Technologies Used: *ERPNext, Nodejs, React native, Loopback framework, Jenkins, Python, JavaScript*

ACADEMIC PROJECTS

Maharishi International University (2023) Library management system: The project was developed for a small library to simplify tasks related to book management, user accounts, borrowing, and reporting. It enhances the efficiency of library operations and improves the user experience for library staff and patrons. My responsibility involved working on a feature that spanned the front-end and back-end. Utilized Java, Swing UI

Maharishi International University (2023) E-commerce application: A simple e-commerce application is a website where users can browse products, add them to a cart, and purchase online. It includes user registration, secure payment processing, order tracking, and product reviews. Store administrators manage product listings and orders through an admin dashboard. My responsibility involved working on a feature that spanned the front-end and back-end. I utilized Express, Node, JavaScript, CSS3, and HTML5.

Maharishi International University (2023) Alumni Management Portal: The Alumni Management System is a web-based application built to effectively organize and oversee interactions and data within a university or educational institution's Alumni network. My responsibility involved working on a feature that spanned the front-end and back-end. Utilized Java, Spring boot, React, MySQL

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 12/2025)

Maharishi International University, Fairfield, Iowa

Fundamental Courses: Web Application Programming, Web Application Architecture, Algorithms, Modern Web Application

Bachelor of Science in Software Engineering in Software Engineering

Addis Ababa University, Addis Ababa, Ethiopia (2018)

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- HackerRank JavaScript certificate May 2020
- HackerRank Problem Solving Certificate May 2020
- HackerRank React certificate May 2020
- KAIST, NIA, and AAIT joint IT training Jul. 31, 2017