

YITBAREK WOLDE

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FULL STACK SOFTWARE ENGINEER

Software Engineer with 5+ years of experience in designing, testing, and deploying high-performance web applications, automation, and AI-driven solutions. Proven success collaborating across cross-functional teams to deliver impactful results. Proficient in React, Next.js, Angular, Node.js, Django, Spring Boot, and Microservices, with expertise in REST APIs, WebSocket, and GraphQL services. Experienced in Cloud technologies including AWS, Azure, GCP, and building scalable infrastructures. Adept at AI/ML for automation and predictive analytics. Strong in optimizing CI/CD pipelines and managing databases like Oracle, PostgreSQL, and MongoDB.

Object Oriented Programming • Functional Programming • Algorithms • Microservices • Design Patterns
• Data Structure • AI • SDLC • AWS • CI/CD • Automation

Languages: Typescript, JavaScript, Python, Rust, Java

Web: HTML5, CSS3, Bootstrap, Node.js, React

Cloud Infrastructure: AWS, Azure, GCP

Web Services: REST API, JSON, WebSocket, GraphQL, XML

Frameworks: React Native, Express, Angular, Spring Boot, Django, Tailwind, Next.js

Databases: MySQL, MongoDB, PostgreSQL, SQLite, Oracle, MS Access, SQL Server.

Design Patterns: Singleton, Factory, Observer, Decorator, Builder, Facade

SDLC: Agile (Scrum) , Waterfall, Iterative

CI/CD/ Tools : Neo-Vim, VS code, IntelliJ, Git, GitHub, Postman, Babel, Jenkins, Kafka, Docker, Kubernetes, Jira, AWS, Nodemon, NPM, NG, PIP, Chai, Mocha, JUnit, JSUnit, Selenium, MongoDB Atlas, Helmet, GitLab, GitHub Actions

AI: Agents, LLM, Vector database, LangChain, TensorFlow, Keras, Computer Vision, ML Algorithms

Platforms: Windows, Linux, MacOS, Android

EDUCATION

Master's in Software Development

Maharishi International University, Fairfield, Iowa (2024)

Bachelor of Science in Computer Science

Unity University, Addis Ababa, Ethiopia (2018)

PROFESSIONAL EXPERIENCE

ADDIS TECH-SOLUTIONS, Addis Ababa, Ethiopia • 04/2019 – 06/2023

Full Stack Software Engineer

Built Web-Based Services

- **Development & Enhancement:** Designed, developed, maintained, and enhanced complex websites, web applications, and productivity tools tailored for small to medium-sized businesses.
- **Cross-Functional Collaboration:** Worked closely with cross-functional teams to achieve project milestones, ensuring smooth integration of technology solutions for build and deployment.
- **Documentation & Policy:** Contributed to user documentation and policy development, ensuring comprehensive support and adherence to organizational standards.
- **Training & Support:** Provided technical training to new employees and end users, including code reviews and detailed specifications.
- **Client Engagement:** Acted as the primary point of contact for clients, effectively communicating technical features and complex ideas, with the ability to influence and address challenging requests.
- **API/Web Service Design:** Designed and implemented APIs and web services to meet client needs and enhance system functionality.

Technologies Used: HTML5, CSS3, Bootstrap, React, Java, Spring Boot, JavaScript, PHP, Jenkins, Python, Django, git, flask, SQL, Oracel. Docker, AWS

KIFIYA FINANCIAL TECHNOLOGY PLC, Addis Ababa, Ethiopia • 08/2018 – 04/2019
Financial Technology company.

Junior Software Developer

Developed Web Service

- **Project Collaboration:** Partnered in project initiation, requirements gathering, and planning phases to ensure precise scope definition and alignment with development goals.
- **Frontend Development:** Built user interfaces utilizing Vanilla JavaScript, Bootstrap, and HTML to deliver a seamless and engaging user experience.
- **Data Management:** Implemented efficient data storage and management solutions using Oracle databases, maintaining high standards of data integrity and accessibility.
- **Automation and API Development:** Engineered automated raw data scraping and processing algorithms, and created robust customer-facing APIs and web services.

Technologies Used: Python, Oracle, JavaScript, Java, Spring Boot, Django, HTML, CSS, Git, Jenkins, Kafka, Docker, Kubernetes, JUnit

PROJECTS

Web Server with Manual Thread Pool Implementation in Rust(2024):

Developed a custom HTTP server in Rust, including manual implementation of a thread pool for concurrent request handling.

- **Project Overview:** Built a basic HTTP server from scratch in Rust, handling fundamental HTTP requests and implementing a thread pool to manage concurrent connections.
- **Key Features:**
 - **Custom HTTP Protocol Handling:** Implemented HTTP request parsing and response generation manually, ensuring compliance with HTTP standards.
 - **Thread Pool Implementation:** Designed and developed a thread pool to manage multiple client connections concurrently, optimizing server performance and responsiveness.
 - **Concurrency and Safety:** Utilized Rust's ownership model and concurrency features to ensure thread safety and prevent data races.
 - **Error Handling:** Integrated robust error handling mechanisms to manage various potential issues and ensure server stability.

Technologies Used: Rust, standard library for networking and threading, neo-vim.

Audio Streaming Platform (2024):

- **Secure Authentication:** Developed a robust user login and registration system.
- **Dynamic Homepage:** Designed a modern home page showcasing trending podcasts with a sticky player for continuous listening.
- **Podcast Discovery:** Implemented a dedicated page for exploring new and popular podcasts.
- **Advanced Search:** Enabled powerful search functionality for easy podcast discovery.
- **Podcast Creation:** Integrated tools for creating podcasts, including text-to-audio conversion and AI-generated images.
- **Multi-Voice AI:** Added support for multiple AI-generated voices for varied podcast content.
- **Profile Management:** Created a profile page to view and delete user-created podcasts.
- **Podcast Details:** Displayed detailed podcast information, including creator, listeners, and transcript.
- **Enhanced Player:** Developed a player with controls for seamless listening.
- **Responsive Design:** Ensured full functionality and visual appeal across all devices.

Technologies Used: Next.js, TypeScript, Convex, OpenAI, Clerk, ShadCN, Tailwind CSS, Git, GitHub, Vs Codium.

Pharmacy Inventory Management System, MIU (2024):

- **Full Stack Development:** Built both frontend and backend using React.js and Node.js/Express.
- **User Interface:** Designed an intuitive UI for browsing medications and reading reviews, enhancing accessibility and user experience.
- **Secure Authentication:** Implemented authentication for secure CRUD operations, ensuring data integrity and security.
- **RESTful APIs:** Utilized RESTful APIs for efficient communication between frontend and backend, optimizing performance and responsiveness.

Technologies Used: Nodejs, Angular 18, Angular Material UI, JWT, MongoDB, REST API, Git, Express, Vs codium, Mongoose

Library Management App, MIU (2024):

- **Cross-Platform App:** Developed a mobile application using React Native for iOS and Android.
- **User Interface Design:** Created an intuitive interface for seamless interaction across platforms.
- **CRUD Functionality:** Implemented CRUD operations for efficient library resource management.

Technologies Used: React Native, Bootstrap, Git, Github, Google UI, babel, Expo, Expo Material

Online Music Player Platform MIU (2024):

- **Full Stack Development:** Built a full stack web app with React for the frontend and Node.js for the backend, including secure authentication and RESTful APIs.
- **Audio Playback:** Implemented stable audio playback controls for seamless play, pause, and navigation.
- **Secure Authentication:** Implemented authentication for secure CRUD operations, ensuring data integrity and security.
- **Search Functionality:** Added search features to find songs by title and dynamically update the playlist.

Technologies Used: React, TypeScript, Node.js, JavaScript, Postman, REST API, Git, GitHub, Vs Codium, Bootstrap, Axios, React Router.