YITBAREK WOLDE

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FULL STACK SOFTWARE ENGINEER

Software Engineer with 5+ years of expertise in designing, testing, and deploying high-performance web applications, software and automation solutions. Proven track record of making impactful contributions across diverse cross teams through exceptional communication with cross-functional teams and technical stakeholders. Adept at leveraging a wide range of technologies, including React, React Native, Angular, Next.js, Express, Node.js, Django, Spring Boot, Microservices, Automation, REST APIs, WebSocket, GraphQL, CI/CD pipelines, AWS, Azure, GCP, 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.