

Wondwosen Terefe
Senior Full-Stack AI Engineer

Contact

Email: wonderasfaw@gmail.com
LinkedIn: linkedin.com/in/wondwosenterefe
US Citizen

Professional Summary

Senior Full-Stack AI Engineer with 9+ years of experience building high-impact web applications, secure AI-enabled systems, and production SaaS/mobile products. Specialized in React.js, TypeScript, and modern front-end architecture, with a proven ability to design accessible, high-performance interfaces.

Skilled in creating RESTful and serverless APIs using Node.js, Express, and AWS services including Lambda, API Gateway, S3, Aurora, DynamoDB, and SAM.

Experienced with enterprise AI solutions using USAi, OpenAI API, AWS Bedrock, LangChain, Vector RAG, LLM orchestration, Node.js AI APIs, and practical Python automation.

Experience

Tanaq Technical Services | Contract Senior Engineer | January 2026 - May 2026 | Remote
Owned React and TypeScript architecture for HUDPortal Enterprise AI in a controlled federal AWS sandbox.

Delivered resource dashboards, release-note workflows, and rules-of-behavior experiences that made AI governance visible to end users.

Integrated USAi, a government-approved secure AI model, with Vector RAG patterns for compliant federal data access.

Connected new enterprise AI portal capabilities with legacy HUGS Portal workflows while coordinating controlled access, environment isolation, and secure deployment practices.

Spatial Front | Senior Web Developer | June 2022 - August 2025 | Bethesda, MD

Delivered USDA applications with React, TypeScript, Node.js, AWS serverless APIs, and AI assistant workflows using Bedrock, LangChain, and RAG patterns.

Architected reusable React components, hooks, maintainable state patterns, and accessible data-rich interfaces.

Built Node.js and AWS serverless APIs with Lambda, API Gateway, S3, DynamoDB, and Aurora/RDS.

Developed AI assistant workflows with Amazon Bedrock, LangChain, prompt engineering, and RAG-based retrieval.

Designed conversational UI patterns for streaming AI responses inside secure federal web applications.

Led Section 508/WCAG accessibility practices, code reviews, CI/CD improvements, CloudWatch logging, and IAM-aware permissions.

Westat | Web Developer | June 2017 - March 2022 | Rockville, MD

Delivered dynamic React.js front-end interfaces for large-scale data visualization and analytics tools.

Modernized legacy JavaScript applications into modular React and TypeScript architectures.

Established Node.js and Express back-end services and integrated RESTful APIs with SQL and NoSQL data layers.

Ensured Section 508 and WCAG 2.0 accessibility compliance and responsive mobile-first UI design.

Introduced unit and integration testing using Jest and React Testing Library.

Built internal content and analytics platforms that improved data access for research and federal teams.

Skills

Front-End: React.js, TypeScript, JavaScript, Tailwind CSS, Material UI, Vite, responsive design, accessibility.

Back-End: Node.js, Express.js, RESTful APIs, serverless APIs, Java, Python automation, GraphQL, MongoDB, SQL/PostgreSQL, authentication.

Cloud and DevOps: AWS Lambda, API Gateway, S3, DynamoDB, Aurora Serverless, SAM, CloudFormation, Docker, GitHub Actions, AWS CodePipeline, CloudWatch, IAM.

AI: USAi, LangChain, Pinecone, OpenAI API, AWS Bedrock, Gemini API, Vector RAG, embeddings, prompt engineering, LLM orchestration, streaming AI UI, Node.js AI APIs.

Selected Projects

KinderPass SaaS Check-In Platform: Production-style SaaS platform using React, TypeScript, Firebase Authentication, Cloud Firestore, organization theming, kiosk workflows, reporting, and Firebase Hosting.

Amharic Bible Web and Mobile App: High-end cross-platform Bible study product using React, TypeScript, Firebase, Capacitor, Xcode, TestFlight, offline reading, Firestore data sync, Node.js/Express, and Gemini-assisted study-plan generation.

EthioScales: Interactive educational tool for traditional Ethiopian music scales using React and TypeScript with advanced state management and audio integration.

Education

Coursework toward Bachelor of Science in Computer Science, Radford University, Software Engineering Concentration.

Associate of Science in General Studies, New River Community College, Computer Science.