

# WONDWOSEN TEREFE

Senior Full-Stack AI Engineer | React | Node.js | AWS | AI Platforms

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## Professional Summary

Senior Full-Stack AI Engineer with 9+ years of experience building high-impact React, TypeScript, Node.js, and AWS applications for federal, SaaS, and product teams. Specialized in modern React architecture, serverless API delivery, accessible user experiences, and secure AI-enabled workflows including a federal HUD AI Platform built with USAi, Open WebUI, FastAPI, PostgreSQL pgvector, Redis, and Okta OIDC. Strong record translating complex requirements into production-ready portals, conversational AI interfaces, and scalable full-stack platforms.

## Professional Experience

### Contract Senior Engineer | Tanaq Technical Services

Remote | January 2026 - May 2026

- Owned React and TypeScript architecture for the HUD AI Platform in a controlled federal AWS sandbox.
- Shaped the internal chatbot and document retrieval experience around Open WebUI, FastAPI, PostgreSQL pgvector, Redis, and USAI API gateway integrations.
- Delivered dashboard, release-note, and rules-of-behavior workflows that made AI governance visible to end users.
- Integrated Okta OIDC sign-in, ALB session handling, and no-public-internet access patterns for internal-only federal use.
- Worked with Secrets Manager, S3 role-based access, and environment isolation to keep the platform aligned with CUI expectations.
- Translated the HUD AI Platform into clear conversational search, document retrieval, and staff-adoption flows for federal stakeholders.

### Senior Web Developer | Spatial Front

Bethesda, MD | June 2022 - August 2025

- Architected responsive React and TypeScript interfaces with reusable components, hooks, maintainable state patterns, and accessible data-rich UX.
- Built Node.js and AWS serverless APIs with Lambda, API Gateway, S3, DynamoDB, Aurora/RDS, CloudWatch logging, and IAM-aware permissions.
- Developed AI assistant workflows with Amazon Bedrock, LangChain, prompt engineering, and Retrieval-Augmented Generation for policy-aware responses.
- Designed conversational UI patterns for streaming AI responses inside secure federal web applications.
- Implemented event-driven processing with SNS, SQS, background jobs, and scalable serverless architecture.
- Led Section 508/WCAG accessibility practices, React architecture reviews, code reviews, and CI/CD improvements across production releases.

### Web Developer | Westat

Rockville, MD | June 2017 - March 2021

- Delivered React interfaces for large-scale data visualization and analytics tools used by research clients and federal agencies.
- Modernized legacy JavaScript applications into modular React and TypeScript architectures, improving maintainability and performance.
- Established Node.js and Express API services for analytics, content, and research workflows across SQL and NoSQL data layers.
- Improved Section 508/WCAG accessibility, responsive UX, and mobile-first interface quality across client-facing applications.
- Introduced Jest and React Testing Library coverage for critical flows, reducing regression risk in production releases.

## Technical Skills

Front-End Engineering: React.js, TypeScript, JavaScript ES6+, React Hooks, Context API, Redux, MobX, Tailwind CSS, Material UI, Vite, responsive design, Section 508/WCAG accessibility.

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

AI & LLM Engineering: USAi, Amazon Bedrock, OpenAI API, LangChain, Open WebUI, FastAPI, Vector RAG, Pinecone, embeddings, prompt engineering, LLM orchestration, streaming AI UI, Node.js AI APIs, Gemini API, Python automation.

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

Testing & Quality: Jest, React Testing Library, API validation, unit testing, integration testing, accessibility testing, code reviews.

Product & Delivery: Agile/Scrum/SAFe, CI/CD, cross-functional collaboration, technical mentoring, architecture reviews, federal stakeholder delivery.

## Selected Projects & Technical Expertise

### KinderPass SaaS Check-In Platform

Built a production-style SaaS platform for children's ministry check-in with family management, kiosk flows, QR/code workflows, label printing, reporting, and organization-level theming. Implemented Firebase Authentication, Cloud Firestore data modeling, role-aware user flows, and Firebase Hosting for secure cloud delivery. Designed a polished React and TypeScript interface for administrators, volunteers, and kiosk users with mobile-friendly workflows.

### Amharic Bible Web & Mobile App

Built a high-end cross-platform Bible study product with authenticated study plans, offline reading, Firestore data sync, and responsive React experiences. Integrated Gemini-assisted study-plan generation and Node.js/Express API patterns to support AI-enhanced devotional workflows. Packaged the experience for iOS using Capacitor, Xcode, and TestFlight while maintaining a shared React and TypeScript codebase.

### AI, Full-Stack & Data Engineering

Designed RAG-oriented and AI-assisted workflows across federal and personal projects using Bedrock, LangChain, USAI, OpenAI API, Gemini API, and vector-search concepts. Built full-stack React, Node.js, Firebase, MongoDB, PostgreSQL, and AWS applications from concept through deployment. Created data import/export, synchronization, and reporting workflows for ministry, education, music, and federal dashboard use cases.

### **EthioScales**

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

### **Education**

Coursework towards Bachelor of Science in Computer Science (1 credit remaining) | Radford University, Radford, VA | 2017 | Software Engineering Concentration

Associate of Science in General Studies | New River Community College, Dublin, VA | 2014 | Computer Science