

Waleed Ahmed

Software Engineer

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RELEVANT EXPERIENCE

Founder — ZoidAI — Sep 2025 - Present

- Architected and shipped a multi-tenant SaaS platform for dental clinics from scratch using **Next.js 14**, **React**, **TypeScript**, and **PostgreSQL**, implementing row-level security policies to ensure complete data isolation between **5+ active tenants**
- Built production REST APIs and serverless functions handling **hundreds of requests daily**, integrating **Stripe** webhooks for subscription lifecycle management, credit tracking, and pay-as-you-go billing automation
- Designed and implemented a dual knowledge base system syncing documents to both voice agents and a custom RAG pipeline using **pgvector** embeddings, **LangChain** text splitters, and semantic search for context-aware responses
- Developed real-time call analytics dashboards with **WebSocket**-based voice testing, cost tracking, and usage monitoring, processing call logs and webhook events to provide actionable insights to clinic administrators
- Deployed to production on **Vercel** with edge middleware, managed database migrations, implemented comprehensive **Vitest** unit tests, and iterated based on direct user feedback from pilot clinics

Software Engineering Intern — Iki Design Studio — Jan 2024 - Apr 2024

- Built a financial modeling web application using **Python Flask** backend APIs and **React** frontend, enabling users to visualize complex financial scenarios with interactive **Chart.js** dashboards
- Designed and implemented RESTful API endpoints for data processing, validation, and aggregation, reducing frontend computation overhead by **40%** through server-side optimization
- Integrated **AWS S3** for secure document storage and retrieval, implementing pre-signed URLs for time-limited access and handling file uploads with proper error handling and validation
- Collaborated with cross-functional design and product teams in daily standups, translating Figma mockups into responsive React components and iterating based on stakeholder feedback

TECHNICAL PROJECTS

Real-Time Collaboration Platform — *TypeScript, WebSockets, React, Node.js*

- Developed a collaborative document editing platform with **WebSocket**-based real-time synchronization, supporting **multiple simultaneous editors** with conflict resolution using operational transformation
- Built the backend using **Node.js** and **Express** with WebSocket server handling persistent connections, message broadcasting, and session management for active collaboration rooms
- Created a responsive **React** frontend with **TypeScript**, implementing optimistic UI updates, cursor position tracking, and presence indicators to enhance collaborative editing experience
- Designed efficient state synchronization protocol reducing message payload size by **50%** through delta-based updates and compression, improving performance for users on slower networks

PROFESSIONAL SUMMARY

New grad software engineer with production experience building and shipping full-stack web applications from scratch. Experienced in designing APIs, implementing complex backend systems, and creating responsive frontend interfaces using Python, TypeScript, and React. Demonstrated ability to independently scope technical challenges, make architecture decisions, and iterate based on real user feedback in startup environments. Passionate about solving complex problems, writing maintainable code, and shipping products that deliver tangible value to users.

SKILLS

Languages

Python, JavaScript, TypeScript, SQL, Java, C, Verilog

Frontend Development

React, Next.js, HTML/CSS, Chart.js, Responsive Design, Component Architecture

Backend & APIs

Flask, Node.js, Express, REST APIs, GraphQL, WebSockets, Serverless Functions

Databases

PostgreSQL, Supabase, pgvector, Redis, SQL Query Optimization, Database Design

Cloud & DevOps

Vercel, AWS (S3, Lambda), Git, CI/CD, Docker, Linux

AI & Machine Learning

LangChain, RAG Systems, Vector Embeddings, scikit-learn, pandas, NumPy

EDUCATION

Bachelor of Computer Engineering — Toronto Metropolitan University — May 2026

Diploma of Data Science — Lighthouse Labs — Oct 2023