AMAAN KHAN

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SKILLS

AI & LLM Engineering	LangChain, LangGraph, Vercel AI SDK, Claude API, OpenAI API, AI Agents, VertexAI, Vector Databases, RAG, Knowledge Graphs, Neo4j
Frontend Development	React, React Native, Next.js, TailwindCSS, TipTap, Prosemirror
Backend Development	TypeScript, Node.js, Python, REST APIs, GraphQL, WebSocket
Cloud & DevOps	AWS (Lambda, S3, EC2, Step Functions), Docker, CI/CD, Terraform
Databases	PostgreSQL, MongoDB, DynamoDB, ElasticSearch, Redis

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EXPERIENCE

Principal Engineer　　　　　　　　　　　　　　　　　　　　　　May 2024 - Present
Somethings　　　　　　　　　　　　　　　　　　　　　　　　　　　　*NYC - Remote*

- Founding principal engineer for teen mental health platform, scaling from 30 to 3.8K+ active users and processing 1.3M+ messages
- Built "Ava" — an agentic AI system using LangGraph, LangChain, and VertexAI enabling staff to query any platform data (teen insights, mentor performance, analytics) via natural language
- Developed AI-powered reply suggestions delivering personalized, tone-matched message recommendations in under 3 seconds
- Architected teen memory collection system for pattern analysis, enabling AI to provide contextual mental health support
- Built cross-platform React Native mobile app, Node.js/TypeScript backend, and React admin dashboards from inception
- Achieved strong retention metrics with 58% 30-day and 25% 90-day user retention rates

Full Stack Engineer & Engineering Lead　　　　　　　　　　　　May 2023 - May 2024
TopLegal　　　　　　　　　　　　　　　　　　　　　　　　　　　*Germany - Remote*

- Architected distributed contract analysis system using microservices with Node.js/TypeScript, processing 1000+ documents daily with 99.9% uptime
- Built scalable knowledge graph system using Neo4j, processing 100K+ legal entities with custom Cypher queries
- Implemented real-time collaboration using Operational Transformation with TipTap and WebSocket, supporting 20+ concurrent users
- Led migration to event-driven architecture using AWS EventBridge and Step Functions, achieving 70% faster processing
- Mentored team of 6 engineers, established code review practices, and implemented trunk-based development workflow

Full Stack Engineer & Technical Lead　　　　　　　　　　　　Dec 2020 - April 2023
Propelius Technologies　　　　　　　　　　　　　　　　　　　　　　　*Surat, IN*

- Promoted to Technical Lead in Dec 2021, leading team of developers while maintaining hands-on development
- Built Next.js-based CRM from scratch with Material UI and real-time Kan-Ban UI, improving team efficiency by 40%
- Designed e-commerce admin dashboard using Retool, resulting in 28% revenue increase
- Integrated EasyCall with Shopify, WordPress, Wix, and other platforms, achieving 15% customer retention improvement

Full Stack Engineer　　　　　　　　　　　　　　　　　　　　May 2019 - Nov 2020
Zypac Infotech　　　　　　　　　　　　　　　　　　　　　　　　　　　*Surat, IN*

- Developed full-stack web applications using LAMP and MERN stacks
- Built custom WordPress and WooCommerce plugins, increasing website functionality by 30%

Backend Engineer   Aug 2018 - Jan 2019
Unofox Pvt. Ltd.   *Surat, IN*

- Built REST APIs for financial apps (PHP) and frontend for B2B marketplaces (JavaScript)

TECHNICAL LEADERSHIP

- Led microservices migration reducing deployment time by 65%; established coding standards with ESLint and SonarQube
- Created technical documentation framework improving onboarding time by 50%; conducted weekly architecture reviews

PROJECTS

Hospi-OS
Tech Stack: TypeScript, Next.js, Node.js, PostgreSQL, Supabase, WebSocket

- Implemented HIPAA-compliant real-time synchronization using Supabase's PostgreSQL pub/sub system
- Designed event-sourcing architecture for audit trails, tracking 100+ types of healthcare events
- Built responsive SPA with Next.js and TailwindCSS, achieving 98+ Lighthouse performance score
- Implemented role-based access control system supporting 5+ user roles and custom permissions

EasyCall
Tech Stack: Nuxt.js, Node.js, PostgreSQL, Twilio, WebRTC

- Architected WebRTC-based call routing system handling 1000+ concurrent calls
- Implemented custom call queuing algorithm reducing wait times by 40%
- Built real-time analytics dashboard with Socket.io and Chart.js

Power Sales. Comprehensive CRM app built with Next.js and Django featuring deals pipeline, contact management, and sales analytics. Integrated with Facebook, IndiaMart, and Justdial, resulting in 25% sales increase.

EDUCATION

Diploma in Information & Technology - 9.2   2016-2019