

ANOOP SINGH

Staff Engineer | AI Architect | Agentic AI & MCP Protocol Expert | Frontend-Heavy Full-Stack

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Bengaluru, Karnataka, India

PROFESSIONAL SUMMARY

Results-driven Staff Engineer with **9+ years of experience** building production-grade distributed systems across web, mobile, and cloud. **Frontend-heavy full-stack engineer** with deep roots in React and React Native, and solid DevOps exposure across AWS EC2, Nginx, and CI/CD pipelines. Recently pivoted strongly into **Agentic AI** — specialising in Model Context Protocol (MCP) server/client architecture, multi-agent orchestration, and LLM tool-use. Currently leading engineering at **SurveyMonkey** while exploring the AI frontier through personal projects. Passionate about building autonomous AI systems that work reliably in production, not just in demos.

CORE COMPETENCIES

Agentic AI & MCP Architecture	Multi-Agent Orchestration	LLM Tool Use & Prompt Engineering
React / React Native / Next.js	Node.js & TypeScript Backend	Mobile App Dev & Deployment
AWS (EC2, Lambda, SQS, DynamoDB)	Nginx & Linux Server Management	Technical Leadership & Mentoring

PROFESSIONAL EXPERIENCE

SurveyMonkey <i>Technical Lead</i>	Dec 2024 – Present Bengaluru, India
<ul style="list-style-type: none">Designed and built MCP (Model Context Protocol) servers as the primary focus — enabling AI agents to interact with SurveyMonkey's core data and survey infrastructure through well-defined tool interfaces.Led the architecture and development of the Integration Platform — a scalable system allowing third-party tools and internal services to connect with SurveyMonkey's ecosystem via standardised APIs.Owned the engineering of the GetFeedback Self-Serve Platform, empowering customers to independently configure, manage, and deploy feedback workflows without engineering intervention.Drove technical direction across squads — defining standards for API design, service reliability, and developer experience in a high-scale SaaS environment.Mentored 8+ engineers through design reviews, best-practice sessions, and career development conversations.	

Axi

SDE 3 (Senior Software Engineer)

Mar 2024 – Dec 2024

London, UK (Remote)

- Designed **low-latency microservices** for real-time financial data processing on AWS, supporting high-frequency trading workflows.
- Built event-driven services with **Kafka and Node.js** handling **100K+ market events/sec** at sub-50ms processing time.
- Developed and maintained the **React Native mobile trading app** (iOS & Android), delivering a fast, reliable trading experience for retail clients.
- Drove adoption of **TypeScript** across backend and mobile codebases, improving type safety and cutting production incidents by **30%**.
- Collaborated with globally distributed teams to define API contracts and integration standards for critical trading systems.

Density

Founding Member & Technical Lead

Jul 2023 – Mar 2024

Bengaluru, India

- Joined as a **founding engineer**; designed the full backend architecture from scratch using **Node.js, TypeScript, PostgreSQL, and AWS**.
- Led a team of 4 engineers — owning system design, sprint planning, and stakeholder communication.
- Built and shipped the **React Native mobile app** end-to-end alongside the web product, enabling users to access the platform on iOS & Android from day one.
- Shipped the **MVP within 3 months** (web + mobile), enabling the product to onboard initial enterprise clients.
- Set up **CI/CD pipelines, Nginx reverse proxies on EC2**, and CloudWatch observability — establishing the DevOps foundation for the team.

CoinSwitch

Senior Software Engineer

Sep 2021 – Jul 2023

India

- Built and maintained high-traffic crypto trading APIs for **20M+ registered users**, sustaining **50K+ concurrent sessions** at peak.
- Designed scalable order-matching and wallet management microservices on **AWS (ECS, SQS, DynamoDB)** at 99.9% uptime.
- Led migration from monolith to microservices, accelerating deployments from bi-weekly to **daily with zero-downtime** rolling updates.
- Implemented real-time streaming with **Kafka and Redis Pub/Sub** for live portfolio and market-data feeds.
- Owned key features on the **React Native mobile trading app** (iOS & Android) used by millions — including real-time portfolio views, order flow, and push notifications.
- Contributed to the **React web trading UI**, ensuring a consistent, high-performance experience across both platforms.

Paytm

Software Engineer

Mar 2020 – Sep 2021

Bengaluru, India

- Developed payment gateway integrations and wallet transaction services processing **millions of daily transactions**.
- Built and maintained customer-facing features using **React and React Native**, contributing to both the web and mobile apps.
- Optimised DB queries and **Redis** caching, achieving a **40% reduction** in average transaction response time.
- Managed **EC2 instances and Nginx** configurations for internal tooling deployments, ensuring high availability.

Raw Engineering

Software Engineer – React, Redux & Node.js

Dec 2016 – Feb 2020

Mumbai, India

- Delivered **10+ full-stack web and mobile applications** for enterprise clients using React, React Native, Redux, and Node.js over 3+ years.
- Owned end-to-end **React Native mobile app** development and deployment to **App Store & Google Play Store** for multiple client products.
- Architected Redux state management and REST APIs, significantly reducing UI bugs and improving data consistency across complex SPAs.
- Set up and managed **Nginx, Linux servers, and basic DevOps** pipelines, handling deployments, SSL configuration, and server monitoring.
- Built reusable component libraries and coding standards adopted across the engineering team.

PERSONAL PROJECTS & AI EXPLORATION

BrainBuzzAi (Personal / Side Project)

Personal Project — AI Playground & Learning Sandbox

Nov 2024 – Present

Side Project

- Built a **full-stack AI-powered learning platform** end-to-end as a personal project — comprising a **React Native mobile app** (iOS & Android), web admin panel, REST API backend, and PostgreSQL database.
- Designed and implemented an **agentic content generation pipeline**: topic ingestion → LLM agent orchestration → structured output (learning paths, flashcards, quizzes, MCQs) with zero manual content creation.
- Architected and implemented **MCP server/client interfaces** exposing the platform's learning management APIs for AI agent consumption — a real-world proving ground for production MCP patterns.
- Deployed the entire stack on **AWS EC2** with Nginx as a reverse proxy, SSL termination, and a **horizontal scaling strategy** (auto-scaling groups + load balancer) to handle traffic spikes.
- Actively iterating on agentic memory, tool-routing, and multi-agent coordination using **Claude API, OpenAI API, and LangChain**.

TECHNICAL SKILLS

Agentic AI & LLMs	MCP Protocol (Server/Client), Multi-Agent Orchestration, LLM Tool Use, Prompt Engineering, Claude API, OpenAI API, LangChain
Frontend	React, React Native, Redux, Next.js, TypeScript, JavaScript (ES2022+), HTML5, CSS3, Responsive Design
Mobile	React Native (iOS & Android), End-to-End App Development, App Store & Google Play Deployment
Backend	Node.js, TypeScript, REST APIs, GraphQL, Microservices, Event-Driven Architecture, Kafka, Redis, WebSockets
Cloud & DevOps	AWS (EC2, Lambda, ECS, SQS, DynamoDB, API Gateway, S3, CloudWatch), Nginx, Linux, Docker, CI/CD, Terraform
Databases	PostgreSQL, MongoDB, DynamoDB, Redis
Methodologies	System Design, Domain-Driven Design (DDD), Technical Leadership, Agile/Scrum

EDUCATION

