Syed Shahbaz Ali

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Summary

Senior Software Engineer with 5+ years of experience architecting and building scalable full-stack applications and distributed systems. Strong expertise in TypeScript, Node.js, Python, and React, with hands-on experience in system architecture, workflow orchestration, microservices, cloud infrastructure, and LLM-powered applications. Proven track record of leading engineering teams, optimizing application performance, and delivering scalable production systems.

Experience

Zotok.ai **Jun 2023 – Present**

Senior Software Engineer - AI *Hyderabad, India*

- Managed a team of **6 engineers**, driving best practices, scalable architecture, and conducted code reviews.
- Architected the core LLM orchestration layer for a **multi-tenant B2B AI** assistant spanning **16** business tools using **LangGraph, BigTool, and LiteLLM** .
- Implemented intent classification, dynamic tool routing, structured response generation, and token-budgeted conversation compaction
- Built **Temporal-scheduled extraction** agents for **20+ client WhatsApp groups** (72 runs/day, 1k+ messages per tenant), writing structured Google Sheets output using tenant-specific guidance; migrated the service from Python to TypeScript.
- Drove frontend **performance optimization** reducing initial page load times by **80%** and bundle size by **25%**.

AVRL **Nov 2021 – May 2023**

Software Engineer *Hyderabad, India*

- Engineered resilient **browser automation** systems using JavaScript and dynamic selector strategies, **replicating human interactions** for reliable data extraction.
- Designed a scalable **micro-frontend** architecture using Nx and Webpack **Module Federation**, enabling independent application development, shared libraries, and deployments.
- Optimized multiple APIs, improving performance by more than **50%**, and accelerated the CI/CD pipeline by adopting PNPM as the package manager, reducing deployment time by **70%**.

Mytra Money **Jul 2021 – Oct 2021**

Software Engineer Intern *Hyderabad, India*

- Developed and maintained RESTful APIs, integrating **Google OAuth 2.0** for secure authentication and authorization, user identity verification, and seamless third-party account integration.
- Integrated **Razorpay Payment Gateway** to enable online payment processing, implementing payment order creation and payment capture through REST APIs.
- Developed an ERP system integrated with banking services. Built a **dynamic JSON-driven component** rendering engine using React.js.

Projects

Syncwell Localfirst | *Node.js, Yjs, IndexedDB, WebSockets* | Source Code

- Architected an **offline-first collaborative editor** using **Yjs CRDTs and IndexedDB**, so edits made offline merge conflict-free on reconnect with no server-side conflict resolution.
- Built a **WebSocket sync server** in Node.js with per-room state and sender-excluding broadcast, supporting live cursors, presence and typing indicators across concurrent clients.

meet-shahbaz-ai | *FastAPI, React, LangChain, ChromaDB, Groq* | Website | Source Code

- Designed and deployed a **full-stack RAG chatbot** that answers questions about my career in first-person by retrieving grounded context using **hybrid BM25 + KNN** semantic search with cross-encoder reranking from my resume.

Technical Skills

Languages: Python, JavaScript, TypeScript
Backend & AI: Node.js, NestJS, FastAPI
AI Agents & LLMs: LangGraph, LangChain, Tool Calling, RAG (KNN + BM25), LiteLLM, SSE, Token and Cost Tracking
Frontend: React, Next.js, Electron, Redux Toolkit, Shadcn

Education

Deccan College of Engineering & Technology **2017 – 2021**

B.Tech. Computer Science