

# Sarabjeet Singh

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## Professional Summary

Full-Stack Software Engineer with 1.5+ years of experience designing scalable, cloud-native applications and AI-powered systems. Proficient in React, FastAPI, Go, TypeScript, and Azure, with hands-on expertise in LLM integration, RAG pipelines, and agentic AI. Delivered 30%+ infrastructure cost reductions, 1M+ daily API requests at 99.9% uptime, and zero-downtime cloud migrations. Passionate about distributed systems, clean architecture, and solving large-scale engineering challenges.

## Technical Skills

**Languages:** JavaScript, TypeScript, Python, Go (Golang), C/C++, SQL, HTML/CSS

**Frontend:** React.js, Next.js, Redux, Material-UI, Tailwind CSS, Responsive Design

**Backend:** Node.js, FastAPI, Express.js, RESTful APIs, GraphQL, Microservices Architecture

**AI/ML:** LangChain, Azure OpenAI, RAG (Retrieval-Augmented Generation), Vector Embeddings, Agentic AI, MCP

**Databases:** MongoDB, PostgreSQL, MySQL, Azure Cosmos DB, Redis, Vector Databases (Pinecone, FAISS)

**Cloud & DevOps:** Microsoft Azure (Blob, Queue, Table, Functions), Docker, CI/CD (GitHub Actions), Linux, Git

**Healthcare & EDI:** EDI 837, 999, 277, MAO-004, MMR, HIPAA Compliance, Healthcare Claims Processing, HL7

**Testing:** Unit Testing (pytest, Jest), Integration Testing, API Testing, Test-Driven Development (TDD)

## Work Experience

### Full Stack Software Engineer

May 2024 – Present

*Health Data Max Innovations*

*Bengaluru, Karnataka, India*

- Architected and deployed full-stack applications using **React, TypeScript, FastAPI, and MongoDB**, serving **10,000+ concurrent users** with 99.9% uptime across production environments.
- Led end-to-end **AWS to Azure cloud migration** with zero downtime, reducing infrastructure costs by **30%** and cutting deployment time by **70%** via Docker containerization and automated CI/CD pipelines.
- Designed and deployed an **agentic AI chatbot** using LangChain and Azure OpenAI with multi-step reasoning, function calling, and self-correcting error recovery for autonomous task execution.
- Built a **RAG-based document QA system** with vector embeddings and semantic search, achieving **85% accuracy** on domain-specific queries and reducing LLM hallucinations by **70%**.
- Built scalable **RESTful APIs using FastAPI** handling **1M+ daily requests**, with structured logging, error handling, and performance monitoring; improved API response times by **50%** through caching and query optimization.
- Optimized React performance via code splitting, lazy loading, and Redux state management, achieving **60% faster page load times** and improved Core Web Vitals.
- Implemented **Azure Blob Storage, Queue, and Table services** for distributed data management, reducing data retrieval latency by **50%** at scale.
- Optimized a serverless **HIPAA-compliant EDI parsing system** supporting **5+ transaction types** (837 claims, 999 acknowledgements, 277 claim status, MAO-004, MMR) — built end-to-end pipeline where users upload files via **React UI** → stored in **Azure Blob Storage** → processed by **Azure Functions (Python)**; improvements reduced parser error rate by **40%**, cut processing time by **35%**, and scaled throughput to **10,000+ EDI files/month**.

## Projects

### MoodMate — AI Mental Health Companion | *Flutter, Firebase, Dart*

2024

- Built a cross-platform mental health app with real-time mood analytics dashboard, journaling, and AI-powered personalized recommendations using Flutter and Firebase.
- Implemented Firebase Authentication and Firestore for secure, real-time data synchronization; deployed to 500+ active users with sub-200ms read latency.

### Full-Stack E-Commerce Platform | *React.js, Node.js, Express.js, MongoDB, JWT*

2023

- Developed an end-to-end e-commerce platform with product catalog, cart, and secure checkout; engineered optimized MongoDB schemas reducing query time by 35%.
- Implemented JWT-based authentication with role-based access control (RBAC) and wrote unit/integration tests with Jest achieving 80%+ code coverage.

## Education

### Sri Venkateshwara College of Engineering

Dec 2020 – May 2024

*Bachelor of Engineering in Computer Science*

*Bengaluru, India*

- Relevant coursework: Data Structures & Algorithms, Operating Systems, Distributed Systems, Database Management, Computer Networks, Object-Oriented Design

## Certifications & Highlights

- **Cloud:** Pursuing Microsoft Azure Developer Associate (AZ-204) — Completed AWS to Azure migration with zero downtime and 30% cost reduction.
- **Scale:** Architected systems handling 10,000+ concurrent users and 1M+ daily API requests at 99.9% uptime.
- **AI:** Built production RAG and agentic AI systems reducing hallucinations by 70% and automating multi-step enterprise workflows.