Mohammed Rashik Ansar Shaik

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Professional Summary

Senior Software Engineer with 5+ years of experience architecting and delivering scalable full-stack solutions for high-impact products serving 10M+ users. Proven track record of technical leadership, from owning 0-to-1 product development to optimizing systems at scale. Expertise in distributed systems, cloud-native microservices, and driving measurable business outcomes through strategic technical decisions. Strong mentor and collaborator with experience leading cross-functional initiatives and establishing engineering best practices.

Experience

- **Insight Global - Client: NCR Voyix** — **Hyderabad, IN**
  Senior Fullstack Engineer — *Jul 2025 - Present*
  Working on next-generation self-checkout systems for a Fortune 500 retail companies, architecting cloud-native microservices handling millions of daily transactions across 10,000+ retail locations.
  - Implemented end-to-end WIC payments backend from scratch, enabling government assistance program support for next-gen self-checkout systems
  - **Tech Stack**: TypeScript, NestJS, RxJS, React, Redux, MQTT, Kubernetes, Redis, Go, Java, GCP.
- **Animall** — **Remote, IN**
  Software Engineer II — *Aug 2021 - Jul 2025*
  Led full-stack development and infrastructure for Series B AgriTech startup (10M+ users), owning end-to-end delivery of multiple business-critical verticals while scaling platform to handle 1B+ monthly requests.
  - Architected and owned complete quick commerce platform from 0 to 1 as sole engineer, delivering end-to-end marketplace solution including inventory management, order fulfillment, and payment processing, contributing to new revenue stream.
  - Led monetization strategy implementation, architecting subscription models and payment infrastructure that increased ARPU by 25% and drove $500+ daily ad revenue through AdMob/AdSense integration.
  - Designed and implemented high-performance feed service using MongoDB aggregation pipelines, optimizing query performance from 8s to 200ms for millions of documents, improving user engagement by 15%.
  - Engineered scalable backend services using TypeScript (NestJS), JavaScript (Express), and Python (FastAPI) handling 1B+ requests/month with 99.9% uptime across AWS and GCP infrastructure.
  - Spearheaded frontend migration from jQuery to Next.js, establishing modern architecture patterns and reducing page load times by 40%, directly improving conversion rates by 12%.
  - Optimized database performance across MySQL and PostgreSQL, implementing composite B-tree indices that reduced query latency from 45s to ¡1s for 10M+ user analytics queries.
  - Built reusable payments SDK with Razorpay integration, enabling seamless transactions across 3 product verticals and reducing integration time from 2 weeks to 2 days for new features.
  - Implemented JWT-based authentication replacing session-based auth, reducing infrastructure costs by 30% and saving 1B+ compute seconds annually.
  - Mentored and led team of 4 junior engineers, conducting code reviews, establishing engineering best practices, and driving adoption of testing standards that reduced production bugs by 40%.
  - Architected omnichannel messaging system (Firebase, WhatsApp, SMS) with personalized push notifications, increasing DAU retention by 4% and reducing churn by 8%.
  - Designed no-code CMS using Strapi for dynamic content management, empowering product team and saving 160+ engineering hours quarterly.
  - Established CI/CD pipelines with GitHub Actions, automating deployment across AWS/GCP with zero-downtime releases and automated rollback capabilities.
  - Drove technical debt reduction initiatives, refactoring legacy monolith into modular microservices, improving deployment frequency from weekly to daily.
  - **Tech Stack**: Next.js, NestJS, TypeScript, JavaScript, Python, Express, MongoDB, MySQL, PostgreSQL, Redis, Firebase, GCP, AWS, Docker.
- **Zoho** — **Remote, IN**
  Software Engineer I — *May 2021 - Aug 2021*
  Contributed to Zoho Assist (remote desktop support platform used by 500K+ businesses), developing core features for cross-platform desktop and web applications.
  - Developed core desktop application features using Electron, JavaScript, and C++ native bindings, enhancing remote support capabilities for enterprise customers.
  - Implemented key simulation feature enabling seamless copy/paste from remote hosts in web application, improving user productivity and reducing support ticket resolution time by 20%.
  - **Tech Stack**: Electron, React, C++ (node bindings), JavaScript.

Education

- **Hindustan University** — **Chennai, IN**
  Master of Computer Applications (MCA) — *Aug 2019 - Jun 2021*
- **CCS University - Institute of Management Studies** — **Noida, IN**
  Bachelor of Computer Applications (BCA) — *Aug. 2016 - Jun. 2019*

Open Source & Technical Projects

- **Flotilla - Distributed KV Store**: Implemented distributed key-value store with Raft consensus algorithm in Go, demonstrating expertise in distributed systems, leader election, log replication, and fault tolerance.
- **Algorithm Visualizer**: Built interactive sorting algorithm visualization platform using Angular, TypeScript to demonstrate computational complexity and algorithm behavior.
- **Dev Chat**: A real time chatting web application for developers, similar to Slack, built using React, Redux and Firebase.

Technical Skills

- **Languages**: TypeScript, JavaScript, Python, Go, Java, C++, Bash/Shell
- **Backend & APIs**: NestJS, Express.js, FastAPI, Spring Boot, Flask, Django, Echo, REST, GraphQL, gRPC
- **Frontend**: React, Next.js, Redux, Vue.js, Electron, Tailwind CSS, SWR
- **Databases**: PostgreSQL, MySQL, MongoDB, Redis, SQLite, Firebase Realtime DB
- **Cloud & Infrastructure**: AWS (EC2, S3, Lambda, RDS, CloudWatch), GCP (Compute Engine, Cloud Storage, BigQuery, Pub/Sub), Docker, Kubernetes
- **Distributed Systems**: Kafka, RabbitMQ, Redis, MQTT, SQS, Pub/Sub, Event-driven architecture, Microservices
- **DevOps & Monitoring**: GitHub Actions, CI/CD, New Relic, CloudWatch, Datadog, Git, Docker Compose
- **Architecture & Design**: Microservices, Event-driven systems, System design, Database optimization, Scalability, High availability