Mohammed Sameer Khan

📍 Bhopal, India   ✉ sameerkhanofficial@gmail.com   📞 +91 812 026 6490   🔗 bit.ly/sameerkhan

in monkfromearth   ⌗ monkfromearth

Summary

Software Engineer with 4+ years building scalable AI-powered platforms serving 1M+ users. Led development of polyglot microservices architectures, event-driven systems, and conversational AI platforms. Expert in TypeScript, Go, and modern cloud infrastructure. Created open source libraries adopted by 40+ production systems. Selected by Facebook among 200 developers globally for ML scholarship. Active community leader organizing 800+ developers across 6+ years.

Experience

Software Engineer   *Bhopal, India*
The Internet Folks   *Aug 2020 – Present*

- Architected polyglot microservices ecosystem serving 1M+ monthly visitors and processing 16M+ analytics events
- Implemented multi-tenant architecture management using NoSQL databases with CQRS and Event Sourcing patterns
- Designed dynamic schema management with validations and relationships for CMS supporting 20+ field types
- Built high-performance concurrent reward distribution using PostgreSQL handling 10k+ parallel operations
- Built AI-powered conversational platform with Model Context Protocol server orchestrating 15+ microservices
- Created real-time leaderboard systems using Redis for gaming and loyalty platforms

Software Engineer   *Mumbai, India (Remote)*
Tata Consultancy Services   *Jul 2020 – Sep 2020*

- Developed customer feedback management platform with React Native and web portal using React
- Built analytics dashboard with automated report generation and data visualization
- Implemented 30+ reusable form components following Test-Driven Development with Scrum methodology

Software Engineer Intern   *Nagda, India*
Grasim Industries (Aditya Birla Group)   *Jun 2019*

- Developed web application for movie ticketing system for internal theatres
- Tested rollout for AB Group's Theatre with 50+ local users
- Gained experience in enterprise-level software development within manufacturing sector

Education

Bachelor of Technology - Computer Science   *Bhopal, India*
Rajiv Gandhi Prodyogiki Vishwavidyalaya   *2017 – 2021*

- CGPA: 8.01/10.0
- **Specialization:** Software Engineering and System Design
- **Relevant Coursework:** Algorithms, Data Structures, Computer Architecture, Software Engineering

Higher Secondary - Science (PCM)   *Nagda, India*
The Aditya Birla Public School   *2014 – 2016*

- Grade: 87.4%
- **Focus:** Mathematics and Computer Science

Publications

Perspectives of Healthcare Sector with Artificial Intelligence Oct 2018

Sameer Khan, Shadab Pasha

Springer Nature Singapore - International Conference on Social Networking & Computational Intelligence
10.1007/978-981-15-2071-6_12 ↗

Projects

Monk Lang - Programming Language with Borrow Checker *2024 – Present*
- Built tree-walking interpreter with Rust-inspired borrow checker for memory safety in dynamic languages
- Developed comprehensive tooling ecosystem including LSP, formatter, linter, and VS Code extension
- Achieved 600+ GitHub stars with cross-platform distribution (Chocolatey, Homebrew, Snap)
- **Technologies:** TypeScript, Bun, LLVM, Language Server Protocol

Gamification - High-Performance Rewards Platform *2025*
- Engineered highly scalable, real-time rewards and loyalty platform handling high-volume concurrent operations
- Implemented PostgreSQL-based queue system handling multiple simultaneous reward claims without blocking
- Built dynamic reward rule engine supporting streak-based, referral, tiered, and activity-based rewards
- Replaced materialized views with incremental PL/pgSQL tables for 90% latency reduction
- **Technologies:** Go, PostgreSQL, Redis, AWS EventBridge

@theinternetfolks/context - Node.js Context Management Library *2022*
- Created context propagation library eliminating prop drilling in Node.js applications
- Achieved 40+ production adoptions with comprehensive testing and cross-platform compatibility
- **Technologies:** TypeScript, AsyncLocalStorage, Node.js

Carveman - Postman Collection Management Tool *2025*
- CLI that splits Postman collections into Git-friendly files and rebuilds them
- Bun implementation runs 3× faster than Node.js alternatives
- **Technologies:** TypeScript, Bun, CLI Development

Afiya - Financial Dashboard Platform *2024*
- Built comprehensive fintech platform with real-time analytics and OAuth 2.0 authentication
- Achieved sub-80ms dashboard rendering with interactive data visualization using ECharts
- **Technologies:** Next.js, Express.js, PostgreSQL, Redis, Docker

SpotRental & Spotwash - Startup Projects *2018 – 2019*
- Led technology development for rental marketplace and on-demand vehicle washing services
- Secured government incubation and achieved 3rd place in state-level Samriddh MP competition
- Featured in DD Madhya Pradesh interviews for innovation in local economy
- **Technologies:** Python, Flask, PostgreSQL, AWS

Technologies

Languages: TypeScript, JavaScript, Golang, Python, SQL, PL/pgSQL, C++, Rust

Backend & Architecture: Node.js, Bun, Microservices, CQRS, Event Sourcing, GraphQL, REST APIs, gRPC

Frontend: React, Next.js, React Native, Angular, HTML, CSS, Tailwind CSS

Databases: PostgreSQL, MongoDB, ClickHouse, Redis, Elasticsearch, BigQuery

DevOps & Infrastructure: Docker, Kubernetes, AWS, Azure, GitHub Actions, Linux, NGINX, Terraform

AI & Tools: Model Context Protocol, Vector Databases, RAG, Prisma, Kafka, WebSockets, Zod, Biome, Turbo

Awards & Recognition

- **Facebook Developer Circles & DataCamp ML Scholarship:** Selected among 200 developers globally (2019)
- **1st Place:** Version Beta Hackathon, NIT Bhopal - AI-enabled Transliteration Keyboard (2018)
- **3rd Place:** IIT Bombay Techfest CoDecode Competition North India Zonals (2018)
- **3rd Place:** Samriddh MP State Innovation Competition - Felicitated by Chief Minister (2018)
- **Udacity Technology Scholar:** Bertelsmann Foundation Data Analyst Nanodegree (2019)
- **Community Leadership:** GDG Bhopal Organizer - 800+ members, 6+ years (2019-Present)
- **Conference Speaker:** Google Cloud Community Days, IEEE conferences, technical meetups