Shivam Chaudhry

Senior Backend Engineer | Cloud Solutions Architect | Fintech Specialist

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Professional Summary

Senior Backend Engineer with **5+ years** of expertise in building scalable, high-performance microservices and cloud-native applications. Proven track record of **reducing system response times by 40-50%** and **handling 10,000+ concurrent transactions** in fintech environments. Specialized in MySQL optimization, AWS cloud architecture, and security implementation. Led successful migrations reducing operational costs by **35%** while improving system reliability. Passionate about mentoring teams and driving technical excellence through innovative solutions.

Technical Expertise

Programming Languages	Backend Technologies	Databases & Caching	Cloud & DevOps	Message Brokers & Integration	Se
JavaScript/Node.js (Expert) SQL (Advanced - MySQL Specialist) Python (Intermediate) TypeScript (Intermediate)	Express.js, NestJS, Fastify RESTful APIs, GraphQL Microservices Architecture WebSockets, Server-Sent Events	MySQL (Sharding, Optimization) MongoDB, Redis Database Design & Migration Query Optimization & Indexing	AWS (Lambda, EC2, S3, RDS) Docker, Kubernetes CI/CD (GitHub Actions) Infrastructure as Code	Apache Kafka, RabbitMQ Event-Driven Architecture API Gateway Design Third-party API Integration	VAP JWT Jest SQL

Professional Experience

Senior Backend Consultant (Fintech - Mutual Funds)
Oct 2023 - Present

Independent Consultant | Fintech Sector

- **Database Performance Optimization:** Implemented advanced MySQL optimization strategies including query tuning and sharding architecture, achieving **50% reduction in database response time** and **90% reduction in system failures**
- **Security & Compliance:** Designed comprehensive audit logging systems for financial transactions ensuring regulatory compliance, while implementing VAPT and SQL injection prevention techniques that **eliminated 100% of common security vulnerabilities**
- **Real-time Processing:** Orchestrated high-performance message processing using Kafka and RabbitMQ, enabling real-time financial data processing for **1000+ concurrent investment orders daily**
- **Caching Strategy:** Managed Redis for high-performance caching, improving application response time by **40%** and reducing database load by **60%**

Backend Developer
Apr 2022 - Oct 2023

InnovationM, Noida

- **Platform Development:** Spearheaded development of a fintech platform serving **50,000+ monthly active users**, implementing optimized database queries and caching strategies that reduced API response time by **40%**
- **Microservices Architecture:** Designed and implemented scalable microservices using Node.js and Kafka, enabling seamless handling of **10,000+ concurrent transactions** and improving system scalability by **300%**
- **Cloud Migration:** Led successful migration of legacy systems to AWS cloud infrastructure, achieving **35% reduction in operational costs** while improving system reliability and uptime
- **DevOps Excellence:** Implemented CI/CD pipelines using GitHub Actions, reducing deployment time by **60%** and enabling **zero-downtime deployments**
- **Team Leadership:** Mentored **3 junior developers**, improving team productivity by **25%** and establishing coding standards and best practices

Backend Developer
Sep 2021 - Apr 2022

Velocis System Private Limited, Noida

- **Enterprise Platform:** Developed core modules for an E-procurement platform serving **100+ enterprise clients**, implementing scalable architecture and robust error handling
- **Security Implementation:** Built secure authentication system using JWT and OAuth 2.0, reducing security vulnerabilities by **90%** and ensuring enterprise-grade security compliance
- **Performance Optimization:** Optimized database queries and implemented caching strategies, improving API response times by **50%** and reducing server load
- **Quality Assurance:** Conducted comprehensive code reviews and implemented coding standards, reducing production bugs by **40%** and improving code maintainability
- **Project Leadership:** Led Device Inventory Management System project (Mar 2020 - Sep 2020):
  - Developed comprehensive inventory management system tracking **1000+ company assets**
  - Implemented real-time tracking features, reducing asset misplacement by **70%**
  - Created automated reporting system, saving **15+ hours of manual work monthly**

Key Projects & Achievements

Mutual Funds Investment Platform
Node.js, WebSockets, Redis, MySQL, Kafka

- Built comprehensive mutual funds platform processing **1000+ investment orders daily**
- Integrated real-time NAV and fund performance data from multiple financial providers
- Implemented transaction processing engine with **99.9% uptime** and real-time notifications

Scalable API Gateway Service
Node.js, Express, Redis, Rate Limiting

- Developed enterprise-grade API Gateway handling **10,000+ requests/minute**
- Implemented advanced rate limiting, authentication, and request validation
- Achieved **30% reduction in API response time** through intelligent caching and load balancing

Education & Certifications

Education

Master of Computer Applications (MCA) *Jun 2018 - Oct 2020*
Dr. A.P.J. Abdul Kalam Technical University
GPA: 7.5/10

Bachelor of Computer Applications (BCA) *Jul 2013 - Jun 2016*
Institute of Technology and Science, Ghaziabad
Percentage: 76%

Certifications & Achievements

AWS Certified Developer - Associate (In Progress)

MongoDB Certified Developer (2023)

Speaker at Local Tech Meetups - Microservices and Cloud Architecture

Open Source Contributor - Active GitHub profile with multiple repositories