

PRIYANSHU SINGH

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SUMMARY

Backend Software Engineer with 3+ years of experience building scalable **microservices**, integrating **payment systems**, and optimizing **cloud-native** solutions. Strong expertise in **Node.js**, **NestJS**, **PostgreSQL**, **Redis**, **Kafka**, and **AWS**. Proven ability to deliver secure, high-performance applications in **Agile/Scrum** environments.

WORK EXPERIENCE

Software Engineer

Aug 2022 – Present

GeekyAnts India

Bangalore, KA

- Architected backend services for customer onboarding, integrating third-party KYC services for identity verification and credit checks, deployed by **3 leading US banks**.
- Engineered multi-tenant **payment processing system** handling 2M+ USD monthly transactions across 4 providers (Authorize.Net, Stripe, BlueSnap, PayPal), achieving 99.99% uptime while ensuring full PCI DSS compliance with zero security incidents.
- Configured a monitoring system using **Prometheus**, **Grafana**, and **AWS CloudWatch**, reducing incident response time by 40%.
- Built a high-scale podcast application using **WebRTC**, **Icecast**, **Socket.io**, **Ably**, **RabbitMQ**, handling 10,000+ concurrent listeners.

Software Engineer Intern

Feb 2022 – Jul 2022

Infinisea Software Private Limited

Lucknow, UP

- Engineered ERP modules for **13+ government authorities**, enabling seamless system integration and enhanced customization.
- Optimized **SQL** queries, reducing report generation time from 15 minutes to 45 seconds (96% faster).
- Applied role-based access control for 10+ government institutions using **OAuth2** and **JWT** authentication.

PROJECTS

Payment Service | NestJS, Authorize.Net, RabbitMQ, Strategy Pattern, Redis, Docker

- Developed modular microservices-based payment service processing 5,000+ daily transactions across 4 payment providers using unified API, reducing integration time for new providers from 2 weeks to 3 days.
- Applied **Strategy and Factory** design patterns for provider selection and instantiation, improving code maintainability by 40% and reducing duplicate code by 65%.

AI-Powered HR Assistant | Vue.js, Node.js, Express, Flask, LangChain, FAISS, PostgreSQL, OpenAI

- Built intelligent AI chatbot handling 1,000+ daily HR queries (policies, leaves, notices) using **LangChain and OpenAI GPT-4**, achieving 92% query resolution accuracy and reducing HR workload by 45%.
- Integrated **PostgreSQL** with SQL Agents for DML operations, processing 500+ database transactions daily with 99.9% data integrity and <50ms query response time.
- Implemented FAISS vector embeddings for semantic search across 10,000+ documents, improving search accuracy by 25% and reducing search latency from 2 seconds to 300ms.

SKILLS

Languages: TypeScript, JavaScript (ES6+), Java, Python, SQL

Frameworks: NestJS, Express, Spring Boot, GraphQL

Databases: PostgreSQL, MongoDB, MySQL, Redis

Cloud/DevOps: AWS (EC2, S3, Lambda, RDS), Docker, Kubernetes, Terraform, CI/CD

Architecture: Microservices, Event-Driven, API Gateway, Serverless

Tools: Git, Kafka, RabbitMQ, Prometheus, Grafana

Security: OAuth2, JWT, PCI DSS Compliance, API Security

EDUCATION

University of Lucknow

Lucknow, UP

Master of Computer Applications

Aug 2020 – May 2022