

# Vinay Kumar Singh

## Development Engineer

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### Summary

Backend Developer specializing in Java, Spring Boot, Microservices, and Angular, with experience building scalable, secure, high-performance enterprise systems. Strong in API design (REST, GraphQL, gRPC) and event-driven architectures (RabbitMQ, WebSocket). Hands-on with Spring Security (JWT, OAuth2, SAML), Hibernate, Liquibase, and databases including PostgreSQL/MySQL and Elasticsearch. Proficient in Docker-based containerization and CI/CD pipelines (Jenkins, Nexus, OpenShift), with a strong focus on performance, reliability, and production readiness.

### Technical Skills

**Backend & Frameworks:** Java, Spring Boot, Microservices, Hibernate/Envers, JPA, Spring Security, Liquibase, JWT, OAuth, Spring AOP, Multitenancy, Python, Flask

**APIs & Messaging:** REST, gRPC, RabbitMQ, GraphQL, WebSocket

**Databases & Storage:** PostgreSQL, MySQL, Elasticsearch, Redis

**DevOps & CI/CD:** Docker, Nexus, Jenkins, Git, Bitbucket, Maven, Kubernetes, Openshift, Grafana

**IDE & Tools:** Postman, Mockoon, IntelliJ, STS, VS Code

### Work Experience

**Development Engineer | Prospecta Software** Gurgaon, India Mar 2024 – present

- Contributed in building OneView 360° dashboards and DQM modules for 50K+ enterprise records, reducing manual reporting by 30% and improving data accuracy by 15%.
- Developed and optimized Task Analytics Dashboard, enabling 20% faster SLA-driven decision-making through actionable insights.
- Led Angular upgrade from v16 to v19, improving load performance by 25% and removing 90% deprecated APIs across 50+ modules.
- Contributed to Platform Stability Team, fixing critical production issues including bulk onboarding timeout failures and authentication/login bugs, improving system reliability and onboarding success.

### Projects

#### Microservices & Custom Starters 🔄

- Developed and maintained Spring Boot microservices (dev-auth-server, dev-sandbox, dev-integration, dev-email-server) with enterprise authentication (Spring Security, Nimbus JOSE + JWT, OAuth), auditing (Hibernate Envers), schema migration (Liquibase), and async communication via RabbitMQ/gRPC.
- Built high-throughput data pipelines processing 1M+ records in batch, syncing PostgreSQL data to Elasticsearch via RabbitMQ for near real-time indexing.
- Designed asynchronous email delivery system (dev-email-server) using RabbitMQ with idempotent processing and Redis caching, ensuring reliable, duplicate-free email dispatch at scale.
- Created reusable platform starters (auth-starter, infra-starter) enabling multi-tenant secure microservices and reducing service onboarding time by 50%.
- Implemented and exposed REST, GraphQL, and WebSocket APIs, containerized services using Docker, and applied cross-cutting concerns via AOP and Swagger-based API documentation.

**Technologies Used:** Spring Boot, Spring Security, Nimbus JOSE + JWT, Envers, Liquibase, GraphQL, REST, WebSocket, RabbitMQ, gRPC, Elasticsearch, Swagger, AOP, Multitenancy, Docker

#### We-Care (Hospital Management System) 🔄

Developed a comprehensive hospital management system to streamline and automate various healthcare operations, ensuring efficiency and seamless communication between stakeholders.

- Managed appointments, prescriptions, invoices, and medications efficiently.
- Implemented JWT-based authentication with role-based access control (RBAC).
- Secure Sign-in/Sign-up functionalities for different user roles (Doctors, Patients, Admins).
- Enabled real-time doctor-patient communication using WebSocket for instant chat.
- Designed a scalable and secure architecture with optimized database performance.

**Technologies Used:** Java, Spring Boot, Spring Security, MySQL, WebSocket

### Education

**Java Full Stack Development,** Masai School, Bengaluru, India

Nov 2022 - Nov 2023

**Bachelor of Science (Mathematics),** Veer Kunwar Singh University, Arrah, India

Apr 2018 - June 2022