

Ravi Gupta

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EDUCATION

Thapar Institute of Engineering & Technology

Patiala, Punjab

Bachelor of Engineering in Computer Engineering

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, HTML

Frameworks: Spring Boot, Hibernate, FastAPI, Flask, Bootstrap, MVC

Tools & Platforms: Git, JIRA, PostgreSQL, Maven, Postman, Azure Cloud, Docker, Redis, Pega

Core Competencies: Data Structures, OOPS, Design Patterns, Web Services, JVM, Agile Development

EXPERIENCE

Infosys

Bangalore, India

Senior Systems Engineer

01/2023 - 02/2024

- Engineered scalable backend components for a task management system using **Java, Spring Boot, and Maven**; developed RESTful **web services** enabling CRUD operations and real-time analytics, improving operational efficiency by 59% through comprehensive API testing with **Postman**.
- Strengthened application security by implementing JWT-based authentication and role-based access control using **Spring Security**, ensuring compliance with enterprise **information security** standards.
- Led Agile/Scrum ceremonies to automate the in-house search module, driving a 45% increase in system performance through effective **problem-solving** and cross-functional collaboration.
- Directed technical design and code reviews; built automated **CI/CD** pipelines using **Azure Pipelines** and **SonarQube**; delivered production support across the SDLC and enhanced enterprise applications using industry-standard **design patterns**.

Systems Engineer

07/2021 - 12/2022

- Provided **production support** and **troubleshooting** for enterprise applications, ensuring compliance with functional requirements.
- Contributed in workflow design for an internal search portal, maintaining code quality via **version control** (Git).
- Assisted in backend development and database management tasks, ensuring system stability and **effective communication** with **cross-functional** squads to deliver under strict SLAs.

FortyTwo Labs

Pune, India

Java Intern

05/2020 - 08/2020

- Gained hands-on experience with RESTful **web services** and Spring Boot, understanding client-server communication.
- Developed APIs using Java to perform CRUD operations, conducting **integration testing** for reliability.
- Integrated Hibernate for seamless database interactions and ORM functionality.

PROJECTS

TaskMaster  | *Java, Spring Boot, PostgreSQL, Maven*

- Built a secure, scalable Task Management backend using **Java, Spring Boot, and PostgreSQL** with modular **RESTful APIs**; implemented JWT-based authentication and role-based access control via Spring Security for multi-role endpoint protection.
- Implemented real-time task analytics using Spring Data JPA and service-layer abstractions, improving query performance and overall backend responsiveness.

Task Management REST API  | *Python, FastAPI, PostgreSQL, Docker*

- Architected and deployed a production-ready Task Management REST API using **FastAPI, PostgreSQL**, implementing JWT authentication, RBAC, rate limiting; delivered secure CRUD and advanced search/filtering with 200ms avg response time under 100 req/min load.
- Engineered scalable async backend architecture with optimized indexing and connection pooling; containerized with **Docker** and implemented end-to-end **CI/CD** for deployment, reducing manual deployment effort by 80% and ensuring production-grade scalability and reliability.

AuthShield  | *Python, FastAPI, PostgreSQL, Redis*

- Engineered a production-ready auth microservice using **FastAPI, PostgreSQL, Redis** with JWT rotation + theft detection, OAuth 2.0 (Google/GitHub), TOTP 2FA, RBAC, and sliding-window rate limiting
- Architected a reusable auth-as-a-service pattern enabling full auth integration in <40 LOC with zero runtime dependency - eliminating weeks of per-project auth effort via a shared deployment.