

# Ankur Karna

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## PROFESSIONAL SUMMARY

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Results-oriented Java Developer with 2+ years of experience designing, developing, and optimizing high-performance microservices and RESTful APIs using the Spring ecosystem. Proven ability to improve system efficiency by reducing query execution times by 35% and improving application throughput by 20%. Proficient in Agile methodologies, CI/CD pipelines, and cloud deployment.

## EXPERIENCE

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### HCLTech

Sep 2022 – Mar 2025

*Software Engineer*

*Noida, UP, IN*

- Optimized database performance in a microservices architecture by implementing advanced JPA/Hibernate indexing and caching strategies, reducing query execution time by 35%.
- Engineered and secured 15+ RESTful APIs using Spring Boot and JWT authentication, reducing data retrieval latency by 25% for a manufacturing system supporting 1,000+ users.
- Enhanced transaction processing performance 20% through multithreading with Java's ExecutorService, enabling the system to handle 1,000+ daily concurrent operations.
- Championed Agile development practices and improved code quality by integrating JUnit, Mockito, and SonarQube into the Jenkins CI/CD pipeline, accelerating release cycles by 20%.

## TECHNICAL SKILLS

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**Languages:** Java (8, 11, 17), Python (basic), SQL, PL/SQL

**Frameworks:** Spring Boot, Spring MVC, Spring Security, Hibernate, JPA

**Web & APIs:** RESTful APIs, Microservices Architecture, Multithreading

**Databases:** SQL, MySQL

**DevOps & Cloud:** Docker, Jenkins, Git, GitHub, Render, Kubernetes (basic)

**Tools & Testing:** Maven, Gradle, JUnit, Mockito, Postman, SonarQube, Power BI

**Methodologies:** Agile, Scrum, Object-Oriented Programming (OOP), Data Structures & Algorithms (DSA)

## PROJECTS

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### Work Order Tracking System | *Internal Project at HCLTech*

- Designed and built a full-stack Spring Boot application from scratch with a MySQL backend to automate work order life-cycle management, eliminating 15+ hours of manual weekly effort.
- Implemented KPI logic for Agile/Waterfall metrics, visualizing burn rate and resource allocation in Power BI dashboards, improving project planning by 30%.
- Provided ongoing maintenance and support, resolving user-reported issues and ensuring system reliability.

### Crynza - Full-Stack Journal Application | *Personal Project* | [GitHub Link](#)

- Built and deployed a full-stack journaling app using Spring Boot, React, MongoDB, and Redis, hosted on Render.
- Implemented secure JWT authentication and Redis caching to protect user data and reduce API latency.
- Engineered a scheduled service to analyze and email users a weekly analytical summary of sentiment trends derived from their entries.

## EDUCATION

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**Bharati Vidyapeeth's College of Engineering, IPU**

New Delhi, India

*Bachelor of Technology, Computer Science & Engineering*

*Aug 2019 – May 2022*

## CERTIFICATIONS

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**AWS Certified Cloud Practitioner** – Issued Apr 2023 – Expires Apr 2026