

Arjun Yadav

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INTRODUCTION

Back-end Java Developer with 2 years of professional experience building scalable enterprise applications using Core Java, Spring Boot, Hibernate, and RESTful APIs. Proven ability to deliver robust backend systems, write clean unit-tested code, and collaborate in agile environments.

EDUCATION

Concordia University

Montreal, QC

Master of Science – Applied Computer Science

Sept. 2023 – May 2025

- Relevant Courses: Algorithm Design Techniques, Programming and Problem Solving, Advanced Programming Practices etc.

Vajiram and Ravi

Delhi, India

GS Prelims & Mains Online Programme

May. 2021 – Aug 2023

- Undertook intensive training for India's Civil Services Examination — comparable to **Canada's Public Service Commission or U.S. Foreign Service Exam**.
- Cleared UPSC Prelims (Top 5% out of 1 million candidates.)
- Relevant Courses: Indian Polity & Governance, International Relations, Economy, History, Geography etc.

Army Institute of Technology

Pune, India

Bachelor of Engineering (B.E) – Information Technology

July. 2015 – July 2019

- Relevant Courses: Object-Oriented Programming, Database Management Systems, Machine Learning etc.
- GPA: 8.55/10.

EXPERIENCE

Systems Engineer (Back-end)

Jul. 2019 – Apr. 2021

Tata Consultancy Services (TCS)

Gurugram, India

- Led the design and implementation of a scalable **automated testing framework** leveraging **AWS S3** for distributed execution and centralized storage, increasing test throughput by **40%**.
- Developed and maintained **Spring Boot-based RESTful microservices** in a distributed architecture; integrated with **Hibernate/JPA** and **PostgreSQL**, achieving **99.9% service uptime**.
- Built responsive, component-based user interfaces using **React.js**, connecting to backend Java services, resulting in a **20% improvement in front-end performance and load times**.
- Created and executed **150+ end-to-end test cases** using **JUnit 5** and **Mockito** to validate business logic and service APIs, reducing manual QA effort by **60%** and post-release bugs by **25%**.
- Performed **root cause analysis and debugging** on both pre-production and live environments (**Linux/Unix**), resolving incidents with a **30% faster turnaround time**.
- Collaborated in Agile squads, participating in daily stand-ups, sprint planning, code reviews, and releases, ensuring **on-time delivery** across 5+ sprint cycles.
- Used tools such as **Git, GitHub, Docker, and JIRA** for version control, CI/CD pipelines, containerization, and issue tracking.
- Followed secure coding guidelines and participated in **peer reviews and architecture discussions**, contributing to improved **system scalability and modular design**.
- Skills: **Java**, Spring Boot, Hibernate/JPA, JUnit 5, Mockito, REST APIs, PostgreSQL, Docker, Git/GitHub, JIRA, **Linux/Unix**, Shell Scripting, AWS, Agile Development.

PROJECTS

Warzone Game (Backend Simulation System)

Sept 2023 – Dec 2023

- Engineered a **Spring Boot-based backend system** simulating a strategic multiplayer game with dynamic player states, troop movements, and conflict resolution logic.
- Designed and exposed **10+ RESTful APIs** using Spring Boot controllers to manage game sessions, player actions, and battle outcomes.
- Applied advanced **Object-Oriented Programming** and implemented **State, Strategy, and Command** patterns to modularize and scale business logic.
- Integrated a mock **PostgreSQL** layer via **Spring Data JPA** to simulate persistence of game states and player profiles.
- Achieved **90%+ code coverage** using **JUnit 5** and **Mockito** for unit testing critical service and controller layers.
- Configured CI workflows with **GitHub Actions** for automated testing and build validation on every push.
- Skills: Java, Spring Boot, REST APIs, JPA, PostgreSQL, Design Patterns, JUnit 5, Mockito, Maven, GitHub, CI/CD

Food Order Application

Sept. 2023 – Nov. 2023

- Built a full-stack food ordering platform using **React.js (frontend)** and **Spring Boot (backend)** with **PostgreSQL** integration.
- Developed **10+ RESTful APIs** in Spring Boot for user auth, menu retrieval, and order placement; reduced frontend data latency by **35%**.
- Implemented database schema and persistence logic using **Spring Data JPA**, enabling dynamic CRUD operations with minimal boilerplate.
- Integrated frontend-backend with **Axios** and validated API contracts using **Postman** and **Swagger UI**.
- Deployed frontend on **Vercel** with **GitHub CI** workflows for continuous deployment; tested backend locally.
- **Application:** [Link](#) — **Skills:** React.js, Spring Boot, REST APIs, PostgreSQL, JPA, GitHub, Swagger, Postman, CI/CD

TECHNICAL SKILLS

Languages: Java, JavaScript, HTML/CSS, Shell Script.

Frameworks & Libraries: Spring Boot, Spring Framework, Hibernate/JPA, React.js, JUnit 5, Mockito.

Tools & Platforms: Git, GitHub, GitHub Actions, Docker, Postman, Swagger, IntelliJ, Eclipse, VS Code, JIRA.

Databases: PostgreSQL, MySQL, MongoDB, (familiar with DB2, Oracle).

Cloud & DevOps: Vercel, Heroku, AWS (EC2), CI/CD Pipelines.

Operating Systems: Linux/Unix, Windows.

Licenses & Certifications: 1. The Complete NodeJS Developer Course (Udemy) **Certificate:** [Link](#), 2. Introduction to Operating Systems (NPTEL).

EXTRA-CURRICULAR & INTERESTS

Member, IT Club — Army Institute of Technology, Pune, India: Engaged in tech-focused knowledge-sharing sessions and assisted with maintaining IT infrastructure and equipment..

Sports: Squash, Cricket.

Passions: Programming, Gym.

ACHIEVEMENTS

- Achieved **Top 10% global ranking** on LeetCode by solving over **520+ algorithmic problems**, demonstrating strong data structures and problem-solving ability. **LeetCode profile:** [Link](#)
- Cleared UPSC Prelims (comparable to Canada's Public Service Commission) in **Top 5%** out of over 1 million candidates, showcasing deep analytical reasoning, comprehension, and retention under high pressure.