

# Ashish Jadhav

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

## SUMMARY

Backend-focused Software Engineer building production APIs and asynchronous systems using Java Spring Boot. Developed a distributed coding judge executing untrusted code inside isolated Docker containers using Redis worker queues and non-blocking processing. Improved database performance on 500K+ records via indexing and query optimization. Strong in REST API design, JWT authentication, and production debugging.

## ENGINEERING HIGHLIGHTS

Sandboxed Docker code execution, Redis worker queues, database optimization (500K+ records), JWT RBAC authentication.

## PROJECTS

### HireNPlace — Online Coding & Placement Platform

[Live](#)

- Architected asynchronous code evaluation pipeline: API → Redis Queue → Worker Containers → Result Validation → Database Store
- Executed user programs securely inside isolated Docker sandbox containers preventing host system access
- Designed non-blocking submission processing allowing concurrent evaluations without API timeouts
- Implemented worker-based background processing to handle multiple code executions in parallel
- Optimized PostgreSQL queries and indexing for faster submission retrieval and leaderboard computation
- Implemented JWT authentication and role-based authorization for students and administrators
- Deployed containerized services behind Nginx reverse proxy

### Smart Training & Placement System

[Live](#)

- Developed role-based placement management portal for students, teachers, and placement officers
- Implemented authentication, application workflow, and profile management modules
- Integrated AWS Lambda and API Gateway for serverless backend endpoints

### PetSecure — QR Based Lost Pet Identification

[Live](#)

- Built QR-based identity system mapping pets to owners and retrieving contact details
- Designed REST APIs, image upload handling, and relational PostgreSQL schema
- Implemented owner notification and pet recovery workflow

### Cloud Notes Application (Serverless)

[Live](#)

- Built serverless notes platform using AWS Lambda, S3, and API Gateway

## TECHNICAL SKILLS

- **Languages:** Java, SQL, JavaScript, Python
- **Backend:** Spring Boot, REST API Design, Authentication (JWT, RBAC)
- **Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB, Query Optimization, Indexing
- **DevOps/Cloud:** Docker, Redis, Nginx, AWS (Lambda, S3, API Gateway), GCP VM
- **Concepts:** Concurrency, Asynchronous Processing, System Design Basics

## EXPERIENCE

### Software Developer Intern, Cybernetics Software Pvt. Ltd.

Jun 2025 – Present

- Developed production REST APIs for enterprise visitor and identity management platform
- Designed approval workflow system and visitor tracking modules used in daily operations
- Improved database performance on 500K+ records via indexing and query optimization
- Built backend services consumed by web and mobile applications
- Diagnosed and resolved session consistency and data integrity issues in production

### Web Developer Intern, Edunet (EYGDS)

Feb 2025 – Mar 2025

- Developed and deployed MERN stack application using MongoDB Atlas and Node.js

### Web Developer Intern, Right Shift Infotech Pvt. Ltd.

Dec 2024 – Jan 2025

- Developed REST APIs and integrated database modules
- Built responsive UI components using React.js and Bootstrap

## EDUCATION

### B.E. Computer Engineering, Savitribai Phule Pune University

2023 – 2026

CGPA: 9.42/10 Pune

### Diploma in Computer Engineering, JSPM Institute

2020 – 2023

Percentage: 83.54% Pune

## LEADERSHIP & ACTIVITIES

Vice President, ACES Student Association – Organized technical events and coordinated student teams.

Languages: English, Hindi, Marathi