

# KOUSHAL SHARMA

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## PROFESSIONAL SUMMARY

Backend Developer focused on building scalable systems using Java Spring Boot, currently deepening expertise in microservices architecture and advanced Spring Boot concepts as a Software Developer Trainee. Practiced in writing clean, well-tested RESTful APIs following SOLID principles, with hands-on experience in JPA/Hibernate and MySQL. Holds a strong theoretical foundation in Artificial Intelligence and Machine Learning, with a career goal of evolving into a Backend AI Engineer specializing in Java-based AI integration, RAG pipelines, and LLM frameworks.

## WORK EXPERIENCE

### Techvalens Software Systems

Software Developer Trainee

February 2026 – Present

Indore, India

- Learning and contributing to production-grade REST API endpoints and backend services in Java, Spring Boot, and Spring Framework, gaining practical exposure to core modules in a distributed software system.
- Building foundational skills in microservices architecture under senior engineer guidance, understanding service decomposition, inter-service communication, and scalable backend design patterns.
- Assisting in relational database schema design and writing SQL queries across MySQL and PostgreSQL using JPA and Hibernate, while developing a practical understanding of data modeling.
- Writing unit and integration test suites with JUnit 5 alongside senior engineers, learning best practices for code coverage, regression reduction, and test-driven development across the SDLC.
- Participating in Agile (Scrum) delivery cycles, including sprint planning, daily stand-ups, and peer code reviews using Git version control, developing collaborative engineering habits.

## PROJECTS

### Learn Now – lernnow.vercel.app | GitHub – Backend Developer

July 2025 – Present

- Architected a layered backend system in Java and Spring Boot following SOLID principles, enforcing a clean separation across controllers, services, and JPA repositories.
- Implemented JWT-based authentication and role-based authorization, securing all RESTful service endpoints and protecting user data.
- Engineered the DTO design pattern to decouple API responses from Hibernate entities, strengthening maintainability and data security.
- Developed validated REST APIs with proper HTTP methods, status codes, and input validation for a structured learning path engine.

### Find A Spot – GitHub – Database Developer

November 2024 – April 2025

- Designed and normalized a MySQL database schema for a real-time smart parking system, focusing on storage efficiency and relational integrity.
- Integrated third-party REST APIs into the backend to enable live parking availability tracking and smart city data exchange.
- Coordinated cross-functional feature integration across a 4-member team, enforcing consistent database design and API contracts.

## SKILLS

**Languages:** Java, SQL

**Backend:** Spring Boot, Spring Framework, Hibernate, JPA, REST APIs, Microservices (learning)

**Databases:** MySQL, PostgreSQL, Database Design

**AI / ML:** Supervised & Unsupervised Learning, Neural Networks, NLP Fundamentals, Model Evaluation (Theoretical)

**Concepts:** OOP, SOLID, Design Patterns, DSA, SDLC, Agile, System Design

## CERTIFICATIONS

Database Management System – IIT Kharagpur (NPTEL) – Elite Badge

Jan 2025 – Mar 2025

Programming in Java – IIT Kharagpur (NPTEL) – Elite Badge

Jul 2024 – Oct 2024

## EDUCATION

### Acropolis Institute of Technology and Research

B.Tech in Computer Science Engineering (AI & ML) – GPA: 7.4/10

Jun 2023 – Aug 2026

Indore, India

### Prestige Institute of Engineering, Management and Research

Diploma in Mechanical Engineering – GPA: 8.45/10

Jun 2019 – Aug 2022

Indore, India