

# Kartik Garg

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## EDUCATION

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### APJ Abdul Kalam Technical University

Bachelor of Technology in Information Technology (CGPA: 8.0)

Lucknow, India

Dec. 2021 – Apr. 2025

### SBM Senior Secondary School

Higher Secondary Education (Percentage: 92%)

CBSE, India

2021

### SBM Senior Secondary School

Secondary Education (Percentage: 79%)

CBSE, India

2019

## EXPERIENCE

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### Software Intern

January 2024 – February 2024

Techplement

Remote

- Developed a microservices-based web application using Spring Boot, React, and MySQL
- Engineered RESTful APIs with indexed MySQL queries to improve response time and scalability
- Designed an asynchronous processing system using Spring's @Async, improving backend responsiveness
- Implemented Redis caching for frequent API calls, reducing average response time by over 60%

### Software Intern

Feb. 2024 – Mar. 2024

Indiinterns

Remote

- Architected a Spring Boot backend for an online café platform, implementing paginated queries for efficient data loading
- Improved database access using indexed MySQL fields and optimized query structure
- Enhanced a React-based frontend, increasing online orders by 30%
- Implemented Redis caching, reducing API response time

## PROJECTS

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### Hotel Service (Github link) | *Java, Spring Boot, Hibernate, MySQL, Redis*

March 2024 – May 2024

- Built a scalable REST API with MySQL, leveraging optimized queries and Redis caching for low-latency access
- Used Spring's @Async for non-blocking hotel booking confirmation processing
- Improved API responsiveness by paginating large result sets and applying conditional queries
- Constructed a hotel search function with optimized in-memory filtering for location-based results

### Product Space (Github link) | *Spring Boot, Java, Maven, MySQL, Git, Redis*

June 2024 – August 2024

- Consolidated multiple e-commerce services with a unified Spring Boot backend
- Improved order processing time by 20% by using Redis to cache shopping cart and order data
- Enhanced customer experience through frontend React optimizations and asynchronous form validation
- Applied indexing and query optimization to support thousands of concurrent product lookups

### E-Grocery Platform (Live Demo) | *React, Spring Boot, Java, MySQL, Git, Redis*

March 2025 – Present

- Developed a robust full-stack grocery app with 50+ concurrent users using Spring Boot + React
- Implemented JWT-based authentication for secure login, reducing unauthorized access by 90%
- Integrated Razor payment gateway, ensuring 100% secure transactions with end-to-end encryption
- Reduced API latency by over 70% by combining Redis caching, optimized MySQL joins, and lazy-loaded React components

## TECHNICAL SKILLS

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**Languages:** Java, Spring Boot, C/C++, Hibernate, SQL (MYSQL), DBMS, HTML/CSS

**Frameworks:** Spring, Hibernate, Microservices, React, JUnit, Mockito

**Developer Tools:** Git, VS Code, Visual Studio, IntelliJ, Eclipse

## CERTIFICATIONS AND CIRCULAR ACTIVITIES

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**Certifications:** Java, C++, Data Structure, ChatGPT

**Activities:** Actively contribute to open-source projects during Hacktoberfest, collaborating with global developers to enhance code quality and drive innovation

Guided and coached 20+ junior students in college, providing hands-on mentorship in coding best practice and software development, accelerating student growth