

RAJ KUMAR

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Education

Maharishi Markandeshwar (Deemed to be) University

Sep 2022 – May 2026

Bachelor of Technology in Computer Science and Engineering — CGPA: 8.0/10

Ambala, Haryana

Technical Skills

Front-End Technologies: React.js, Angular, TypeScript, JavaScript, HTML5, CSS3, Next.js, Three.js

Back-End & Programming: Java, Python, Go, Node.js, Express.js, Spring Boot, C++, SQL, Microservices

Database Systems: PostgreSQL, MongoDB, MySQL, NoSQL, Redis

Cloud & DevOps: AWS, Google Cloud Platform, Docker, Jenkins, Git, CI/CD, System Design

Tools & Testing: JUnit, Selenium, Jest, REST APIs, Automated Testing, Version Control

Experience

Workfall

Jul 2025 – Sep 2025

Software Development Engineer Intern

Remote - Singapore

- Developed robust hospital backend system using **Spring Boot** and **Java** with **PostgreSQL** database, implementing comprehensive **REST APIs** for seamless healthcare data management.
- Engineered efficient bulk email service capable of sending **200+ emails simultaneously** with single-click functionality, reducing notification delivery time by **85%**.

Cloud Counselage Pvt. Ltd.

Jan 2025 – Mar 2025

Software Engineering Intern

Remote-Mumbai

- Built college discovery platform using Next.js, Express.js, Node.js, TypeScript, and MongoDB, enabling students to find colleges through verified reviews and connect with experts, reducing college selection time by 35%.
- Created skills-based matching, peer networking, and application tracking features, decreasing college application completion time by 50%.

Edunet Foundation

Nov 2024 – Jan 2025

Software Engineering Intern (Microsoft, SAP, AICTE Partnership)

Remote – Bengaluru, Karnataka

- Built **Spam Email Classifier** using **Python** and **Machine Learning** algorithms, processing **10,000+ email samples** with **95%+ accuracy** for email security systems.
- Collaborated with software engineers from **Microsoft**, **SAP**, and **AICTE** on AI applications, using data structures and algorithms for ML pipelines.

Projects

API Monitoring Dashboard | Next.js, TypeScript, Express.js, PostgreSQL

Jan 2025 – May 2025

- Built monitoring dashboard using **Next.js**, **TypeScript**, and **Express.js**, tracking **4,800+ API requests** across 6 microservices with **99.98% uptime accuracy** and data visualization.
- Added **automated testing with Jest and JUnit**, alerting system for performance thresholds, and **PostgreSQL** for data storage, reducing incident response time by **40%**.

Collaborative Code Editor | React.js, Node.js, Socket.io, MongoDB, AWS, Docker

Jun 2024 – Aug 2024

- Engineered application supporting **200+ concurrent users** with **React.js** frontend and **Node.js** backend, using operational transforms for **99.2% data consistency**.
- Deployed on **AWS** with **Docker** containerization, auto-scaling groups, and **CI/CD pipelines** using **Jenkins**, achieving **99.5% uptime** and **30% cost reduction**.

Contact Management System | Spring Boot, PostgreSQL, JavaScript, REST APIs

Mar 2024 – May 2024

- Built contact management system using **Spring Boot** with **PostgreSQL**, supporting **1,000+ contact records** and integrated payment gateway with secure authentication.
- Added **unit testing with JUnit**, role-based access control, and **RESTful APIs**, ensuring **100% secure user sessions** and **PCI-compliant transaction processing**.

Achievements & Certifications

- ServiceNow Certified System Administrator (CSA) & Application Developer (CAD)** - Certified in IT service management, workflow automation, and custom application development (2025)
- Social Winter of Code Contributor** - Open source contributor working with global developers on React.js and Node.js projects.
- Codeforces competitive programmer** with consistent contest participation, mathematical reasoning and algorithm optimization skills.
- LeetCode 4-star rating** with **1,755 contest rating** and **500-day problem-solving streak**, demonstrating data structures and algorithms expertise with **2050+ problems solved** include all platforms.
- Goldman Sachs Software Engineering Virtual Experience** (May 2024) - Analyzed IT security vulnerabilities and enhanced password protection for systems.
- Finalist in HACK-X-NIET 2023** - Competed among **200+ teams** in 24-hour hackathon, building solutions.
- AWS Educate Machine Learning Foundations & Generative AI** - Amazon Web Services certifications in cloud technologies and AI.