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* | **Live** **Jan 2025 – May 2025**
- Architected enterprise-grade monitoring platform with **Next.js**, **TypeScript**, and **Express.js**, tracking **4,800+ API requests** across 6 microservices with **99.98% uptime accuracy** and real-time telemetry visualization.
- Implemented **Server-Sent Events (SSE)** for real-time streaming, distributed tracing with **OpenTelemetry**, and MTTA/MTTR alerting, reducing incident response time by **60%**.
- Built monitoring solution with threshold-based alerts, **SQLite storage**, cURL reproduction, and KPI dashboards, deployed on **Vercel** with **CI/CD**.

Collaborative Code Editor | *Next.js, Node.js, MongoDB, AWS, Docker* | **Live** **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 & Generative AI** - AWS certifications in cloud technologies and AI.