

# AMAN RAJ

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## Education

### Acharya Institute of Technology

Bachelor of Computer Science and Engineering

2019 – 2023

Bengaluru, Karnataka

## Professional Experience

### Kaplan

#### Software Engineer-1

November 2023 – present

#### Microservices Development & Deployment

- Designed, developed, and maintained 10+ scalable microservices using Java Spring Boot and Quarkus, improving startup time by 30% and reducing memory usage by 25%. Built RESTful APIs for high availability and low latency, boosting inter-service efficiency by 40%. Followed Agile methodology with iterative sprints. Led KE4 app and microservices Monero, Doge, and Ripple, enhancing their architecture, performance, and deployment strategies

#### Resilience & Performance Optimization

- Implemented robust error handling, caching mechanisms, and circuit breaker patterns, reducing system failures by 35% and improving service uptime to 99.9%.

#### Database Management

- Designed and optimized MySQL relational database schemas, enhancing query performance by 25% and ensuring 99.9% data integrity for complex data models. Utilized PL/SQL for data purging and maintenance, reducing redundant data storage by 20%.

#### Integration & Middleware

- Developed and managed real-time system integrations using Software AG's webMethods, facilitating seamless data exchange across enterprise systems.

#### CI/CD & Automation

- Automated build, test, and deployment pipelines using Jenkins, reducing deployment time by 60% and increasing release frequency. Cloud & Kubernetes Migration. Deployed microservices and databases on AWS (EC2, RDS, S3, Lambda), ensuring high availability and scalability. Individually I led the Kubernetes migration, improving deployment efficiency by 40% through optimized container orchestration, scaling strategies, and resource management.

#### Software Engineer Intern

August 2023 – November 2023

#### GraphQL Development

- Designed and implemented CRUD operations using GraphQL, reducing query execution time by 40% and improving data retrieval flexibility.

#### Salesforce Development with Apex

- Developed and customized Salesforce applications using Apex, implementing business logic, triggers, and automation to streamline internal processes, increasing operational efficiency by 30%.

#### API Integration

- Integrated Student API to enable seamless data exchange across multiple systems, reducing manual data synchronization efforts by 50%.

## Technical Skills

**Languages:** Java, JavaScript, HTML/CSS, Typescript, SQL, PL/SQL

**Libraries/Frameworks:** React.js, Node.js, Tailwindcss, Material-UI, Express.js, React Native, Bootstrap, Spring boot, Quarkus

**Developer Tools:** Git, GitHub, AWS, Docker, Jenkins, Kubernetes, Web method(AG Software),Salesforce

**Databases:** MongoDB, SQL developer

**CS Core:** Operating System, Computer Networks, DBMS, OOPs, DSA

## Projects / Open-Source

**E-Commerce Microservices** | java, Spring Boot, MongoDB, Redis, Docker, Kubernetes, RabbitMQ, OAuth2, JWT, CI/CD.

- Developed a **scalable e-commerce platform** using **microservices architecture**, ensuring modularity, flexibility, and high availability. The system includes microservices for **user management, product catalog, order processing, payments, and notifications**, built with **Spring Boot** for efficient RESTful API communication.
- Utilized **MongoDB** for scalable data storage and **Redis** for caching, reducing query latency and improving performance. **Docker** containerized the services, while **Kubernetes** managed orchestration, scaling, and load balancing. Implemented **RabbitMQ/Kafka** for asynchronous event-driven communication, enhancing system resilience.
- Security features include **JWT authentication** and **OAuth2**, ensuring secure API access. Optimized database queries and caching strategies for low-latency responses. Automated **CI/CD pipelines** with **GitHub Actions/Jenkins** streamlined deployment and feature rollouts.

**Cavitek** | TypeScript, React.js, Node.js, Nest.js MongoDB, CI/CD.

- Cavitek is a sanitary pad **e-commerce platform** with an integrated **menstrual cycle prediction system**. It enables users to purchase hygiene products while predicting their **next period** based on past cycle data.
- Built with **TypeScript**, the front-end uses **React.js**, while the backend leverages **Node.js with Nest.js** for scalable APIs. **MongoDB** ensures flexible data storage, and Redis optimizes caching. The platform includes secure payments, **JWT authentication**, and AI-driven product recommendations. Deployed with **Docker and Kubernetes**, it ensures scalability and high performance.

## Skills

- Presentation skill
- Leadership
- Critical Thinking
- Report Writing
- Teamwork
- Logical Thinking