Mrugank Chandrakant Jadhav
Full Stack Developer

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Summary

Full Stack Developer with 4+ years of experience architecting scalable web applications using Java, Spring Boot, Angular, and React. Expertise in microservices architecture, RESTful APIs, cloud technologies, and DevOps practices. Proficient in optimizing performance, implementing real-time features, and delivering robust solutions that drive engagement and operational efficiency.

Skills

Methodologies: SDLC, Agile (Scrum, Kanban), Waterfall
Programming Languages: Java, Python, SQL, JavaScript, TypeScript
Front-End: HTML, CSS, React.js, Vue.js, Angular, Next.js, Tailwind CSS, jQuery, AJAX, Bootstrap, Redux
Back-End: Spring Boot, Spring MVC, Spring Security, Hibernate, JPA, JDBC, Node.js, Express.js, RESTful API, GraphQL, WebSockets
Architecture & Security: Microservices Architecture, MVC, REST API, JWT
Databases: Oracle, MongoDB, PostgreSQL, MySQL, Redis
Cloud & DevOps: AWS (EC2, S3, EBS, Lambda, RDS), Azure, Docker, Kubernetes, Terraform, Google Firebase
Operating System & Version Control: Linux, Mac, Windows, Maven, Git, GitHub, GitLab
Testing & IDE Tools: Cypress, Selenium, Jest, JUnit, Mockito, Eclipse, Visual Studio, IntelliJ
Web & Application Servers: Apache Tomcat, WebSphere Application Server, BEA WebLogic
Soft Skills: Problem Solving, Time Management, Adaptability, Attention to detail, Strong Communication Skills, Team Collaboration

Education

Master of Science in Computer Science | Binghamton University, Watson College of Engineering and Applied Science   **December 2024**

Bachelor of Engineering in Computer Engineering | Ramrao Adik Institute of Technology, India   **May 2018**

Work Experience

Full Stack Developer | PNC, California   **August 2024 - Current**

- Built a **Java** based payment **microservice** using **Spring Boot, Maven** and **Apache Kafka** frameworks to eliminate duplicate transaction processing challenges, implementing robust metadata validation, reducing processing edge cases prevented 50 daily duplicate transactions.
- Enhanced user engagement by developing push notification feature for mobile banking application using **Angular** frontend and **Java** backend integration, achieving 40% increase in daily active user sessions and improved notification response rates.
- Solved complex routing validation requirements through secure **RESTful APIs** built with **Spring Boot**, **JWT authentication**, and **Oracle database** integration, creating comprehensive **Swagger** documentation covering 20 endpoints while maintaining strict compliance standards.
- Improved client portal performance by optimizing **Angular** based user interfaces integrated with **Java microservices** architecture, reducing page load times by 60% and enhancing transaction processing speed for corporate banking customers.
- Prevented critical payment system downtime by establishing comprehensive root cause analysis processes and **Oracle SQL** optimization techniques, consistently maintaining uptime standards and resolving incidents.
- Enhanced sprint delivery coordination by actively participating in **Agile Scrum** ceremonies and collaborating with senior developers effectively, working with cross-functional QA teams to deliver 8 iterative features for banking applications.

Full Stack Developer | Sage Softtech, India   **January 2019 - July 2022**

- Spearheaded the full software development lifecycle (SDLC) for a **Java** based Electronic Health Record (EHR) system integrated with **React.js**, reducing patient data access time by 40% and earning positive user feedback.
- Developed responsive, cross-device front-end interfaces for the EHR platform using **React.js, TypeScript, Bootstrap**, and **Redux**, while developing and deploying 20 secure **microservices** with **Spring Boot, Spring Security, Hibernate ORM**, improving feature onboarding.
- Constructed **RESTful** and **GraphQL** APIs with **Spring Data JPA** and Jersey, handling 500K+ monthly calls and reducing latency by 35% through performance optimization.
- Boosted backend performance for large-scale, high-throughput workloads by 25% through optimized **Java** multithreading, concurrency, and architecting scalable **PostgreSQL** schemas with **Redis** caching, reducing DB load during peak hours.
- Integrated **AWS services (S3, EC2, RDS, Lambda)** to enhance system scalability and reduce infrastructure costs by 20% through serverless and containerized solutions.
- Implemented real-time appointment scheduling and patient event streaming features within the EHR system using **Kafka**, **WebSocket**, and **JMS**, which increased patient portal engagement and reduced missed appointments.
- Streamlined delivery pipelines by containerizing applications with **Docker**, orchestrating deployments via **Kubernetes**, and automating **CI/CD** using **Jenkins** and **GitHub** Actions resulting faster release cycles and fewer deployment bugs.

Projects

Rate-shop Car Management: ↗

- Architected a microservice architecture application on AWS for management of car fleets along with prediction of car rental prices, utilized React JS for building an interactive user interface and Spring Boot with Hibernate for effective Object Relational Mapping (ORM) with Amazon RDS PostgreSQL database, reducing development time by 25%.
- Trained and packaged Random Forest Regressor model as a Python library in an Amazon S3 bucket for efficient retrieval and use.
- Deployed entire application via Elastic Kubernetes Services (EKS), ensuring scalability and reliability within a cloud infrastructure.
- Streamlined testing, building, and deployment with CI/CD pipelines on GitHub Actions, cutting deployment time by 40%.

Analysis of Spotify Artists and Tracks: ↗

- Designed and implemented a scalable ETL pipeline in Python that orchestrated data extraction from Reddit and Spotify APIs across 4,000+ artists into PostgreSQL database, achieving 98% data integrity through robust rate-limiting architecture.
- Conducted in-depth sentiment analysis on over 10,000 Reddit posts utilizing NLTK to unveil pivotal correlations between fan discussions and Spotify metrics, developed interactive Flask-based analytics dashboard transforming technical findings into accessible insights that informed marketing strategies for artists.