MRUGANK CHANDRAKANT JADHAV

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PROFESSIONAL SUMMARY

Software Engineer with 4+ years in healthcare, e-commerce, and fintech, delivering scalable cloud-native solutions on AWS, GCP, and Azure through collaborative problem-solving, clear communication, and a focus on user-centered design. Experienced in microservices and RESTful APIs with Java / Spring Boot, migrating monolithic apps to microservices, building React and Angular based retail portals for 150K+ users, and streamlining deployments via Jenkins and GitHub Actions CI/CD pipelines

TECHNICAL SKILLS

Relevant Coursework: Programming for Web, Cloud Computing, Design Patterns, Social Media and Data Pipeline, Database Systems
Programming Languages: Java, Python, SQL, JavaScript, TypeScript, C, C/C++
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
Databases: Oracle, MongoDB, PostgreSQL, MySQL, Redis
Cloud & DevOps: AWS (EC2, S3, EBS, Lambda, RDS), Azure, Docker, Kubernetes, Terraform, Google Firebase
Testing & IDE Tools: Cypress, Selenium, Jest, JUnit, Mockito, Eclipse, Visual Studio, IntelliJ
Architecture & Security: Microservices Architecture, MVC, REST API, JWT
Methodologies: SDLC, Agile (Scrum, Kanban), Waterfall
Operating System & Version Control: Linux, Mac, Windows, Maven, Git, GitHub, GitLab
Web & Application Servers: Apache Tomcat, WebSphere Application Server, BEA WebLogic

EXPERIENCE

Full Stack Developer | PNC, California   *May 2025 - Current*
- Built and deployed a **Java** based payment microservice using **Spring Boot, Maven and Apache Kafka**, implementing metadata validation to **eliminate 50+ duplicate transactions/day** and improve system reliability
- Developed push notification feature for mobile banking using **Angular** frontend and Java backend, boosting daily active sessions by 40%
- Solved complex routing validation through secure **REST**ful APIs built with Spring Boot, **JWT** authentication, and **Oracle** database integration
- Optimized **SQL queries** and root cause analysis processes, preventing downtime and maintaining 99.9% uptime
- Collaborated in agile sprints demonstrating **team leadership**, **effective communication**, and **adaptability**, delivering **5** iterative features with QA and cross-functional teams for banking applications

Full Stack Development Intern (Research Aide) | Binghamton University, New York   *February 2025 - May 2025*
- Engineered scalable **REST**ful API using **Python's Flask** framework, to manage and process forecasting data for global health research
- Integrated real-time data visualization tools like **Google Charts**, enabling users to access and analyze complex data sets interactively
- Redesigned backend APIs with comprehensive **Swagger** documentation covering **20** specific endpoints, replacing generic calls, streamlining client integration and ensuring compliance
- Improved portal performance by utilizing **React hooks** component optimization and caching mechanisms, reducing page load times by **40%**

Software Engineer | TATA Consultancy Services, India   *September 2018 - July 2022*
- Spearheaded the software development lifecycle (SDLC) for a Java based US Car Rental (CR) client, supporting **150,000+** active users globally
- Developed responsive, cross-device front-end interfaces for the CR system 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%
- 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 (S3, EC2, RDS, Lambda)** to enhance scalability and cut infrastructure costs by 20% through serverless and containerization
- Implemented real-time rental scheduling and patient event streaming features within the CR system using **Kafka, WebSocket, and JMS**, which increased user portal engagement and reduced missed updates by 48%
- Streamlined delivery pipelines by containerizing applications with **Docker**, orchestrating deployments via **Kubernetes**, and automating CI/CD using **Jenkins** resulting faster release cycles and fewer deployment bugs

EDUCATION

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

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

PROJECTS

Rental rate-shop Management | ⊙ GitHub   *June 2024 - July 2024*
- Architected a microservice architecture application on **AWS** for management of car fleets along with prediction of rental prices
- Utilized **React.js** for interactive user interface, **Spring Boot** and **Hibernate ORM** with **Amazon RDS**, 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 | ⊙ GitHub   *August 2023 - December 2023*
- Designed and implemented a **ETL** pipeline in **Python** that orchestrated data extraction from Reddit and Spotify APIs across **4,000+** artists
- Conducted in-depth sentiment analysis on over **10,000** Reddit posts utilizing **NLTK** to unveil pivotal correlations between fan discussions and Spotify metrics
- Delivered Flask-based dashboard transforming technical findings into accessible insights that informed marketing strategies for artists