

RUSHABH MEHTA

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EDUCATION

Binghamton University, State University of New York | *Master of Science in Computer Science* May 2024

Relevant Coursework: Operating Systems, Cloud Computing with AWS and GCP, Design Patterns in Java, Database Systems, Analysis of Algorithms, Programming Language with Java, Data structures

University Of Mumbai, India | *Bachelor of Engineering in Computer Science*

May 2021

Relevant Coursework: Data Structures and Algorithms, Database Systems, Computer Networks

TECHNICAL SKILLS

Languages: Java, C++, Javascript, Python, C, Dart, HTML, CSS, TypeScript, Bash Scripting

Database: SQL, MySQL, NoSQL, AWS DynamoDB, PostgreSQL, MongoDB, Firebase

Frameworks: Flutter, React.Js, Pandas, Numpy, Spring Boot, GraphQL, REST APIs, MockMVC, Spring Cloud, Hibernate, Node.Js

Developer Tools: Amazon-web-service, Google Cloud, Azure, Docker, Kubernetes, Github, Microservices, Maven, Gradle, Kafka, OOPS, YAML, AOP, Terraform, Redis, Mockito, Linux, Jenkins, Ansible, JUnit, JWT, OAuth2, Stream API, Computer Vision

Software Development Skills: Agile methodologies, Scrum, Shell scripting, Software Development Life Cycle (SDLC), Test-driven

PROFESSIONAL EXPERIENCE

Millicent Technologies | *Software Engineer*

September 2021 – May 2022

- Orchestrated the optimization of the REST APIs using Java and the Spring framework within a microservice event-driven architecture, resulting in a 40% reduction in account lookup time for client users and an overall improvement in system response time
- Engineered REST APIs with Spring Boot and leveraged advanced Java features including Collections Framework, Exception Handling, I/O System, Multi-Threading, and JDBC, yielding a significant 60% increase in system efficiency and seamless integration
- Constructed essential Spring components such as Controllers, Validators, and Resource Mappings using annotations to efficiently handle requests, alongside creating custom view templates and implementing robust Unit and Integration tests with JUnit and Mockito
- Architected and deployed backend API and frontend UI solutions using a combination of web and app technologies such as React JS, Flutter, Spring Boot, EC2, S3, and REST APIs on AWS infrastructure, resulting in an impressive 80% boost in scalability and robustness of the mainframe pipeline
- Implemented Continuous Integration/Continuous Deployment (CI/CD) pipelines using Jenkins, leading to a notable 30% reduction in deployment time and a 20% increase in deployment frequency, facilitating a more agile development process
- Utilised Ansible for configuration management and automation of infrastructure provisioning tasks, resulting in a 25% reduction in deployment errors and a 40% decrease in provisioning time, ensuring consistency and reliability across different environments

Freeloc IT Solutions | *Software Engineer*

September 2020 – August 2021

- Conceptualised and designed a robust token-based system utilising Java, JSON, and Spring Boot, incorporating functionalities for token-based, appointment-based, and mass token calls, This initiative significantly increased user satisfaction by over 50%.
- Integrated Firebase push notifications with JavaScript to enhance user engagement, resulting in a notable 40% reduction in queue waiting times and improved operational efficiency
- Leveraged MongoDB to increase data storage capacity by 30%, accommodating the growing user base and data requirements
- Integrated Apache Kafka for real-time data processing, reducing data latency by 40% and improving system responsiveness
- Incorporated Spring Security to enforce authentication and authorization, enhancing data integrity and bolstering system security

PROJECTS

Heuristic Path Finding Algorithms <https://lnkd.in/dBar45nH>

Feb 2024 – March 2024

- Spearheaded the development of diverse pathfinding algorithms, optimising for the most efficient route between two points while introducing cutting-edge features like maze generation in JavaScript (Js)
- Conducted extensive research into factors influencing pathfinding and refined methodologies, incorporating techniques such as BFS, DFS, Dijkstra, A*, and Greedy BFS algorithms, alongside implementing maze generation capabilities
- Achieved an unprecedented level of accuracy, surpassing existing literature in the field, while also introducing innovative features like drawable walls, speed control, and pixel-level precision to enhance user experience and customization options

Banking System

September 2023 – November 2023

- Engineered a Java-based client-server banking system with multithreading and AES encryption, ensuring secure communication
- Implemented private and public key pairs for secure key exchange, enabling users to authenticate with AES-encrypted passwords for enhanced security along with error handling and logging mechanisms to fortify fault tolerance
- Integrated Spring Security for authentication and authorization of transactions between end users, ensuring secure and seamless interactions within the banking system

Medical Appointment Scheduling Application

January 2023 – March 2023

- Launched a comprehensive healthcare platform encompassing complete doctor data, facilitating functionalities such as appointment scheduling, video calls, and the secure storage of heart rate data in the AWS cloud
- Integrated Flutter for cross-platform mobile development, enhancing the platform's accessibility and user reach
- Deployed AWS Lambda and API Gateway to incorporate a message service seamlessly into the platform, facilitating efficient communication between users, it utilised watchOS to gauge and store heart rate data, augmenting the platform's health monitoring capabilities