

Yash Patel

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Education

MS in Computer Engineering (GPA:3.7)

New York University (NYU), USA

September 2023 – May 2025

Bachelors of Engineering in Information Technology (GPA:3.7)

St Francis Institute of Technology, INDIA

August 2020 – May 2023

Work Experience

Software Engineer | Leo9 Studio - Mumbai, India

January 2022 - August 2023

- Engineered a document management system with **Spring Boot**, **React.js**, **Microsoft SQL Server**, and **AWS** to streamline daily operations, enhancing efficiency and tripling productivity in routine tasks.
- Implemented **Apache Kafka** for real-time document processing and event-driven updates within the document management system, reducing data sync latency by 40% and improving scalability for handling concurrent user requests.
- Utilized **React-Hooks**, including `useMemo`, `useCallback`, and `useSelector` with `Reselect`, optimizing system performance and reducing re-renders by 35% for a more efficient user experience.
- Developed **GraphQL** APIs to streamline communication between the server and client-side, enabling efficient data retrieval.
- Integrated **Spring Security** to enforce role-based access control (**RBAC**) and **OAuth2** authentication, ensuring secure document access and enhancing the system's overall security posture.
- Developed and executed comprehensive unit and integration tests using **JUnit** and **Mockito**, achieving 85% test coverage and ensuring system reliability, robustness, and seamless functionality across multiple services.
- Leveraged **Spring Data JPA** for efficient data management and repository management, streamlining database interactions with **Microsoft SQL Server** and reducing the complexity of database queries.
- Implemented **CI/CD** pipelines using **Jenkins**, **Docker**, and **Kubernetes**, automating build, test, and deployment processes, ensuring consistent application delivery.
- Reduced front-end bugs by 89% through rigorous code reviews and automated testing.

Projects

Stock Learning System

- Developed a comprehensive stock learning system using **Spring Boot**, **React.js**, and **Microsoft SQL server**, offering an interactive platform for users to learn about stock market concepts through dynamic lessons, quizzes and real-time stock data.
- Optimized data querying by leveraging **GraphQL**, reducing query response time by 40%.
- Implemented efficient state management using **Redux** and `Redux-Thunk` to handle asynchronous operations, improving app performance and reducing load times by 30%.
- Implemented **WebSocket** communication between the backend and frontend, enabling real-time updates for stock prices, live market data, and user interactions within the learning system, providing a dynamic and responsive user experience.
- Integrated **Apache Kafka** for seamless communication between **Java microservices**, enabling real-time data streaming and event-driven architecture, which improved the scalability, fault tolerance, and responsiveness of the stock learning system.
- Integrated **SQL Server** as the database for secure and scalable storage of user data, stock history, and educational content, improving system scalability and reliability.
- Automated notifications and reminders via email using **JavaMailSender**, ensuring users stay engaged and up-to-date with new stock market lessons and upcoming events.

Technical Skills

Programming Languages: Java, Python, JavaScript, TypeScript, C++, PHP

Front-End Technologies: React.js, Angular.js, HTML5, CSS, Webpack, SASS

Back-End Technologies: Node.js, Spring Boot, Django, GraphQL, RESTful APIS

Databases: MySQL, Oracle, Microsoft SQL server, PostgreSQL, MongoDB, Elasticsearch, Redis

Cloud And DevOps: Amazon Web Services (AWS), Docker, Kubernetes, Jenkins, Serverless, Git, GitHub, GitLab

Data Processing and Streaming: Apache Kafka, Apache Flink, Apache Spark