

Riya Jain

New York, NY | +1 (551) 229-8681 | rj2628@nyu.edu | [LinkedIn](#) | [Github](#) | (Authorized to work in the USA and willing to relocate)

Education

New York University

September 2023 - May 2025

Master of Science in Information Systems.

New York, NY

Courses: Fundamentals of Algorithms, Database Management Systems, Data science for Business.

Maulana Azad National Institute of Technology(NIT), Bhopal

July 2016 - June 2020

Bachelor of Technology in Computer Science and Engineering.

Bhopal, India

Courses: Object Oriented Programming, Operating Systems, Data Structure and Algorithms, Database Systems, NLP.

Technical Skills

Programming & APIs: Java, Python, JavaScript, TypeScript, C++, Shell Script, REST APIs, GraphQL, WebSockets, Upstox API

Web Tech & Frameworks: HTML, CSS, React.js, Next.js, Angular, Vue.js, Node.js, Express.js, Django.

Databases & Query Languages: MySQL, PostgreSQL, DynamoDB, Amazon RDS, Redis, PL/SQL, MongoDB.

DevOps & Cloud Technologies: AWS, Docker, Kubernetes, Jenkins, GitHub Actions, Drone CI, Terraform.

Data Engineering & ML Tools: Apache Kafka, Apache Spark, Databricks, Pandas, Numpy, Matplotlib

Work Experience

Software Developer Intern - Pickleball Minds

New Jersey, USA | June 2024 – August 2024

- Achieved seamless user experience for **500+ users** by developing dynamic, component-based interfaces with Vue.js, which led to improved engagement and reduced frontend load time by 30%.
- Ensured payment security and PCI compliance for **500+ transactions** by integrating Stripe with OAuth 2.0 and encrypted APIs, aligning with industry best practices for secure financial systems.
- Improved customer satisfaction** by writing comprehensive unit and integration tests, achieving **95% code coverage**.

Senior Software Engineer - John Deere

Pune, India | September 2021 - May 2023

- Increased attachment sales by **15%** by developing a microservices-based Attachment Recommender Tool using **Java, Spring Boot**, and **Hibernate**, which enabled real-time inventory synchronization across systems.
- Improved deployment efficiency by 30%** by implementing an end-to-end **CI/CD pipeline** using GitHub Actions, which raised release frequency from bi-weekly to weekly across frontend and backend services.
- Enabled automated product promotions for 600K+ monthly U.S. site visits** by designing a **large-scale distributed infrastructure** using AWS CloudFormation, developing Python Lambda functions, and integrating REST APIs with DynamoDB.
- Accelerated IoT sensor data processing with **Apache Spark & BigQuery**, **cutting batch query execution time by 45%** and enabling real-time equipment monitoring and predictive maintenance.

Software Engineer - John Deere

Pune, India | August 2020 - August 2021

- Reduced high-risk vulnerabilities **by 90%** by automating the EC2 AMI upgrade process, which saved over 10 hours of manual maintenance monthly.
- Improved deployment efficiency by 50%** by developing Jenkins pipelines in Groovy with integrated automated testing, static code analysis via **SonarQube**, and secure deployments.
- Improved product search performance by 40%** by implementing Redis caching and optimizing PostgreSQL queries, reducing backend latency on **deere.com**.
- Achieved robust cross-browser validation** by designing a **Selenium WebDriver testing framework** with 30+ scripts, ensuring accurate rendering of John Deere product pages.

Projects

CITI BANK Trading Bots | Java, Python, C++, MySQL, RabbitMQ

September 2024 - December 2024

- Enabled competitive evaluation of trading bots** by building a distributed framework supporting **Java, Python, and C++**, which ran participant-submitted bots against historical order data and automatically selected the top performer based on trading results.

Job Application Tracker | Vue.js, Django, PostgreSQL, Rest API - [Github](#)

January 2025 - Present

- Achieved a 25% reduction in server response time by building secure, scalable REST APIs using Django, which led to streamlined job tracking and faster data retrieval across the Vue.js frontend.

Ecommerce Microservice | Python, JavaScript, Docker, Kubernetes | [Github](#)

September 2024 - December 2024

- Built a RESTful eCommerce customers microservice using Python and Flask-RESTX, implementing CRUD operations, resource querying, and action execution while ensuring **97% unit test coverage with TDD and BDD testing frameworks**.
- Automated six-stage CI/CD pipeline with GitHub Actions & Tekton on OpenShift for Kubernetes deployment.