

Riya Jain

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Education

New York University, Courant Institute of Mathematical Sciences

Expected Graduation: May 2025

M.S. in Information Systems. GPA: 3.7/4.0

New York, NY

Relevant Coursework: Fundamentals of Algorithms, Database Systems, Devops and Agile, Data Science for Business.

Maulana Azad National Institute of Technology (NIT Bhopal)

July 2016 - June 2020

B.Tech in Computer Science and Engineering.

Bhopal, India

Technical Skills

Programming Languages & Web: Java, Python, JavaScript, TypeScript, C++, Shell Script, HTML, CSS, ReactJS, Angular, Node.js, Next.js, REST APIs, WebSockets, GraphQL, Google API, Spring Boot, SQL, PLSQL.

Databases, DevOps & Tools: MySQL, PostgreSQL, DynamoDB, Redis, AWS, GCP, CI/CD, Terraform, Docker, Kubernetes, Jenkins, GitHub Actions, Tekton, Openshift, Selenium, JUnit, PyUnit, SonarQube, Veracode, Figma.

Work Experience

Rally Sports Venture

New Jersey, U.S

Software Developer Intern

June 2024 - August 2024

- Built a **React application with 10+** reusable components (payment forms, dashboards, content galleries) and **2000+** lines of Typescript code, facilitating membership purchases and exclusive content access; the tool is now utilized by over **500+** users.
- Developed a **secure payment** processing system using **Stripe & OAuth 2.0**, ensuring encrypted transactions and **100% PCI** compliance, safeguarding **500+** user transactions.

John Deere

Pune, India

Senior Software Engineer

September 2021 - May 2023

- Developed a microservices-based Attachment Recommender Tool using Java Spring Boot and AWS, enabling real-time inventory sync, increasing attachment sales by **15% in one quarter**.
- Implemented end-to-end **CI/CD** pipeline using **GitHub Actions** for frontend and backend applications, reducing deployment time by **30%** and increasing release frequency from **bi-weekly to weekly**.
- Designed **AWS infrastructure with CloudFormation**, connecting Python Lambda functions to DynamoDB via **REST APIs**, enabling automated product promotions on **deere.com** and handling **30,000+ daily** U.S. customer requests
- Built an interactive dealer locator page using **Leaflet.js** and **Google Maps API** for map rendering, integrating **PostgreSQL** (PostGIS) and **Elasticsearch** for geolocation-based dealer search, increasing dealer visit rates by **25%**.
- 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

August 2020 - August 2021

- Developed **cross-browser compatible** UI components for John Deere product pages, validated with **Selenium WebDriver** tests across Chrome, Firefox, and Edge.
- Maintained documentation of CI/CD processes, API endpoints, and testing flows, improving knowledge transfer within the team.
- Optimized **product search performance on deere.com** by implementing Redis caching and PostgreSQL query tuning, **reducing** query response times by **40%**.
- Engineered Groovy-based Jenkins pipelines with automated testing (JUnit, SonarQube scans), cutting deployment time by 50%.

Projects

StreamSphere Streaming platform | Javascript, Apache Kafka, AWS, Node.js | [Github](#)

January 2025 - Present

- Developed full-stack video streaming platform with Node.js/Express backend and React frontend, integrating AWS S3 uploads, HLS adaptive streaming, and Apache Kafka for real-time data processing.

CITIBANK Trading Bots | Python, Java, C++, MySQL, RabbitMQ

September 2024 - December 2024

- Developed an isolated containerized environment using Docker to validate multi-language trading bots, achieving **99.9%** accuracy in detecting malicious code and improper configurations, and language-specific static analysis.

Customers Microservice | Python, JavaScript, HTML, 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.