Riya Jain

New York, NY | [Email](#) | [LinkedIn](#) | [Github](#)

Education

New York University   **Expected Graduation: May 2025**

M.S. in Information Systems.   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, Node.js, Next.js, REST APIs, WebSockets, GraphQL, Object Oriented Programming.

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

Work Experience

New York University   **New York, U.S**

Course Assistant   **September 2024 - Present**

- Teach Data Structures and Algorithms to **90+** students a semester, lead workshop sessions, hold weekly office hours and grade exams.

Rally Sports Venture   **New Jersey, U.S**

Software Engineer 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.**
- Applied **UI/UX design principles**, including user-centered design and responsive layouts, to create and prototype membership webpages using Figma, achieving a **35% conversion rate.**

John Deere   **Pune, India**

Senior Software Engineer   **September 2021 - May 2023**

- **Architected React-based** Attachment Recommender Tool for Deere.com using AWS services with real-time inventory sync, interactive product cards, and dealer locator features, driving **35% attachment sales growth 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 CloudFormation** infrastructure with Python Lambda functions and **REST APIs** connecting to DynamoDB, enabling automated product promotions on deere.com and serving **30,000+ daily** U.S. customer requests.
- Optimized cloud infrastructure costs by **25% through** EC2 Auto Scaling, S3 lifecycle policies, and DynamoDB auto-scaling with 80% target utilization metrics.

Software Engineer   **August 2020 - August 2021**

- Reduced vulnerabilities on **EC2 web servers** by **90%** by automating the redundant AMI Upgrade process and cutting monthly maintenance time by **10 hours** in one quarter.
- Engineered **Groovy-based Jenkins pipelines** with automated testing, security scanning, and deployment processes, reducing high-risk security issues by **50%.**
- Designed Selenium WebDriver testing framework for John Deere product pages with cross-browser compatibility and content validation through **30+ custom scripts**.

Projects

StreamSphere Streaming platform (Personal project, 30+ hours) - [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 (Capstone Project, 4 team members, 70+ hours)   **September 2024 - December 2024**

- Created a sandbox environment for Citi Bank's trading competition platform where participants submit trading bots to compete.
- Developed an isolated containerized environment using Docker to validate submitted bots, achieving **99.9%** accuracy in detecting malicious code and improper configurations, and language-specific static analysis.

Customer's Ecommerce Website (Team Project, 2 team members, 60+ hours) - [Github](#)   **September 2024 - December 2024**

- Built a Flask-RESTX microservice with 95%+ test coverage using TDD/BDD (Selenium, Behave).
- Automated six-stage CI/CD pipeline with GitHub Actions & Tekton on OpenShift for Kubernetes deployment.