

Riya Jain

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Education

New York University

M.S. in Information Systems.

Expected Graduation: May 2025

New York, NY

Maulana Azad National Institute of Technology (NIT Bhopal)

B.Tech in Computer Science and Engineering.

July 2016 - June 2020

Bhopal, India

Technical Skills

Programming: Java, Python, JavaScript, TypeScript, C++, Shell Script, Object Oriented Programming.

Web Development: React, Node.js, Next.js, HTML, CSS, REST APIs.

Cloud & DevOps: AWS, CI/CD, Docker, Kubernetes, Jenkins, GitHub Actions, Tekton, OpenShift, Terraform.

Databases: MySQL, PostgreSQL, DynamoDB, Redis, MongoDB.

Testing & Quality: Selenium, JUnit, PyUnit, SonarQube, Veracode, TDD/BDD.

Tools & Platforms: Figma, JIRA, Git, Postman, Swagger.

Work Experience

New York University

New York, U.S

Course Assistant

September 2024 - Present

- Teach Python 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 Javascript code, facilitating membership purchases and exclusive content access; the tool is now utilized by over **500+ users**.
- Improved customer engagement by 35%, driving business growth through optimized UI/UX strategies.

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

- Implemented risk mitigation strategies that reduced EC2 vulnerabilities by 90%; automated the redundant AMI Upgrade process thereby cutting monthly maintenance time by **10 hours** in one quarter.
- Engineered **Jenkins pipelines** with automated testing, security scans, and reducing deployment time by **50%**.
- Designed Selenium WebDriver testing framework for John Deere product pages with cross-browser compatibility and content validation through **30+ custom scripts**.
- Optimized queries in SQL server to extract and display data about John Deere products on webpages.

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

- Ensured compliance with financial regulations by implementing security checks and bot validation, achieving **99.9%** accuracy in detecting malicious code, 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.