Riya Jain

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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 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 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**

- Developed a scalable microservices-based Attachment Recommender Tool using Java Spring Boot and AWS, enabling real-time inventory sync and dealer locator functionality, 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 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 high risk 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 **Jenkins pipelines** with automated testing, security scanning, and deployment processes, reducing security issues by **50%.**
- Introduced **DevOps methodologies** through the deployment of comprehensive Sonar and Veracode scans, monitoring critical metrics at regular intervals, leading to a **50%** decrease in high-risk security issues.
- 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**

- 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.