

Riya Jain

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Education

New York University, Courant Institute of Mathematical Sciences

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: Java, Python, JavaScript, TypeScript, C++, Shell Script

Web Technologies & Frameworks: HTML, CSS, React.js, Next.js, Angular, Vue.js, Node.js

APIs & Protocols: REST APIs, GraphQL, WebSockets, Upstox API.

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

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

Testing & Quality Tools: Selenium, JUnit, PyUnit, Pylint, 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 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.
- 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%**.

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 **Groovy-based Jenkins pipelines** with automated testing, security scanning, and deployment processes, reducing deployment time by **50%**.
- Optimized **product search performance on deere.com** by implementing Redis caching and PostgreSQL query tuning, **reducing** query response times by **40%**.
- 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 | 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.

Stock Trading Platform | Next.js, Express.js, GraphQL, Upstox Websocket API - [Github](#)

January 2025 - Present

- Developed a full-stack trading platform with Next.js/Express.js that streams real-time data from 84,000+ financial instruments via Upstox WebSocket API, featuring personalized watchlists and search using OpenSearch and GraphQL.

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.

Leadership and Teaching

New York University

September 2024- Present

Course Assistant – Intro to Programming (Python)

- Supported a class of 90+ students in understanding core Python programming concepts.
- Held office hours and review sessions to guide students through hands-on coding exercises and troubleshoot errors.
- Promoted a collaborative and inclusive learning environment while strengthening communication and mentoring skills.