

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)

June 2016 - June 2020

B.Tech in Computer Science and Engineering.

Bhopal, India

Technical Skills

Languages/Frameworks: JavaScript, React, TypeScript, Next.js, Python, Java, Ruby, GraphQL, HTML, CSS

Web/DevOps: PostgreSQL, Redis, Docker, Kubernetes, AWS, GCP, GitHub Actions, CI/CD, Sentry, DataDog, Jenkins

Tools & APIs: Google Maps API, Leaflet.js, SEO tooling, Figma, Stripe, OAuth 2.0

Work Experience

Rally Sports Venture

New Jersey, U.S

Software Developer Intern

June 2024 - August 2024

- Developed a performant, SEO-optimized React + Next.js web platform with 10+ reusable components (payment forms, dashboards, galleries), written in TypeScript, now used by 500+ members.
- Integrated structured content and metadata strategies to improve indexing and search visibility, contributing to 20% boost in page discoverability.
- 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**.
- Partnered with product and design teams to implement SEO strategies like structured data (Schema.org), semantic HTML, canonical URLs, and optimized meta tags; improved page indexing and increased organic traffic by 18% over two quarters.
- 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%**.
- Monitored the dealer locator app using **Datadog to track API performance**; identified latency caused by Elasticsearch queries during peak traffic and optimized them with Redis caching, improving response time by 30%.

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.

E-Commerce Engine | 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.