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
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, Angular, Node.js, Next.js, REST APIs, WebSockets, GraphQL, SpringBoot, Object Oriented Programming.

Databases, DevOps & Tools: MySQL, PostgreSQL, DynamoDB, Redis, AWS, GCP, CI/CD, Terraform, Docker, Kubernetes, Jenkins, GitHub Actions, Tekton, Openshift, Selenium, JUnit, PyUnit, 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 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.
- Implemented **distributed data processing with Apache Spark & BigQuery**, reducing **batch query execution time by 45%** for large-scale IoT sensor data.

John Deere	**Pune, India**
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 scans, and reducing deployment time 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.
- Enhanced **database performance** for high-throughput applications by implementing **Redis caching and PostgreSQL query optimizations**, reducing query response times by **40%**.

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, Junit, Pylint	**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.

Recommendations Microservice | Python, JavaScript, HTML, Docker, Kubernetes | [Github](#)	**September 2024 - December 2024**

- Built a RESTful eCommerce recommendations 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.