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

Work Experience

New York University, New York	**Course Assistant**	**September 2024 - Present**

- Teach Python to **90+** students a semester, lead workshop sessions, hold weekly office hours and grade exams.

Rally Sports Ventures, New Jersey	**Software Engineer Intern**	**June 2024 - August 2024**

- Built a custom WordPress website with extensive CSS to achieve pixel-perfect Figma designs, implementing interactive components including forms, CTA buttons, dynamic accordions, content gallery with filtering functionality, and responsive landing pages.
- Implemented a complete membership system using WooCommerce, creating custom registration forms and integrating PayPal payment gateway to enable secure user subscriptions and automated access control; the tool is now utilized by over **1000+ users.**

John Deere, India	**Senior Software Engineer**	**September 2021 - May 2023**

- Developed a React-based Attachment Recommender Tool for Deere.com utilizing AWS (Lambda, DynamoDB, API Gateway); implemented real-time inventory synchronization through DynamoDB triggers, built interactive product cards with shopping cart and dealer locator features, resulting in **35%** growth in attachment sales 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.**
- Built infrastructure using AWS CloudFormation; developed Python Lambda functions and REST APIs to fetch data from DynamoDB, enabling automated product promotion updates on deere.com and serving **30,000+** daily customer requests.
- Optimized cloud infrastructure costs by **25%** through strategic use of serverless technologies and auto-scaling policies, enhancing resource utilization and operational efficiency.

John Deere, India	**Software Engineer**	**August 2020 - August 2021**

- Reduced 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.
- 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.
- Developed SQL queries to extract and display data about John Deere products on webpages.

Projects

Stock Trading Platform (Personal project, 60+ hours) - Github	**January 2025 - Present**

- Developed a full-stack stock trading platform using Next.js and Express.js, integrating with Upstox's WebSocket API to stream live market prices from a database of **84,000+** financial instruments, featuring personalized watchlist management and search functionality built with OpenSearch and GraphQL, reducing data payload size by **30%** using Protobuf serialization.

CITIBANK Trading Bots (Capstone Project, 4 team members, 70+ hours)	**September 2024 - December 2024**

- Built a sandbox environment for Citi Bank's trading competition platform where participants submit trading bots to compete.
- Developed a sandbox environment to validate submitted bots, achieving **99.9%** accuracy in detecting malicious code and improper configurations, and language-specific static analysis.

Unemployment Rate Prediction (Team Project, 2 team members, 40+ hours) - Github	**February 2024 - April 2024**

- Led a predictive analysis project to forecast unemployment rates using machine learning models such as Neural Networks, ARIMA, SARIMA, Decision Trees, and Logistic Regression.
- Achieved a high accuracy of **95%** by evaluating performance through metrics such as accuracy and RMSE.

Technical Skills

Languages: Java, Python, JavaScript, Typescript, C++, PL/SQL, Shell Script
Framework and Design Tools: ReactJS, Node.js, HTML, CSS, Wordpress
Cloud and DevOps Tool: AWS, Jenkins, Drone, GitHub Actions, Docker, Kubernetes
Databases: MySQL, PostgreSQL, DynamoDB, RDS, Redis