Riya Jain

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Education

New York University	**September 2023 - May 2025**
Master of Science in Information Systems.	*New York, NY*

Courses: Fundamentals of Algorithms, Database Management Systems, Data science for Business.

Maulana Azad National Institute of Technology(NIT), Bhopal	**July 2016 - June 2020**
Bachelor of Technology in Computer Science and Engineering.	*Bhopal, India*

Courses: Object Oriented Programming, Operating Systems, Data Structure and Algorithms, Database Systems, NLP.

Technical Skills

Programming & APIs: Java, Python, JavaScript, TypeScript, C++, Shell Script, REST APIs, GraphQL, WebSockets, Upstox API

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

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

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

Testing & Quality Tools: Selenium, JUnit, PyUnit, Pylint, SonarQube, Veracode, Figma

Work Experience

Software Developer Intern, **Pickleball Minds (Startup)**   **June 2024 - August 2024, New Jersey, U.S**

- **Onboarded 500+ users** by building a scalable React app with 10+ reusable components using **TypeScript**, enabling membership purchases and exclusive content access.
- Ensured payment security and PCI compliance for **500+ transactions** by integrating Stripe with OAuth 2.0 and encrypted APIs, aligning with industry best practices for secure financial systems.
- **Improved customer satisfaction** by writing comprehensive unit and integration tests, achieving **95% code coverage**.

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

- **Increased attachment sales by 15%** by developing a microservices-based Attachment Recommender Tool using **Java**, **Spring Boot**, and **Hibernate**, which enabled real-time inventory synchronization across systems.
- **Improved deployment efficiency by 30%** by implementing an end-to-end **CI/CD pipeline** using GitHub Actions, which raised release frequency from bi-weekly to weekly across frontend and backend services.
- **Enabled automated** product promotions serving **30,000+ daily U.S. customers** by designing infrastructure with AWS CloudFormation, developing Python Lambda functions, and integrating REST APIs with DynamoDB.
- **Increased dealer foot traffic by 25%** by building a multithreaded Java Spring Boot service with REST APIs and geo-search using PostGIS and Elasticsearch.

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

- **Reduced high-risk vulnerabilities by 90%** by automating the EC2 AMI upgrade process, which saved over 10 hours of manual maintenance monthly.
- **Improved deployment efficiency by 50%** by developing Jenkins pipelines in Groovy with integrated automated testing, static code analysis via **SonarQube**, and secure deployments.
- **Improved** product **search performance by 40%** by implementing Redis caching and optimizing PostgreSQL queries, reducing backend latency on deere.com.
- **Achieved robust cross-browser validation** by designing a **Selenium WebDriver testing framework** with 30+ scripts, ensuring accurate rendering of John Deere product pages.

Projects

CITI BANK Trading Bots | Java, Python, C++, MySQL, RabbitMQ	**September 2024 - December 2024**

- **Enabled competitive evaluation of trading bots** by building a distributed framework supporting **Java, Python, and C++**, which ran participant-submitted bots against historical order data and automatically selected the top performer based on trading results.

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.

Ecommerce Microservice | Python, JavaScript, 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.