

Ritik Jain

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EDUCATION

Master of Science in Computer Science

University of Colorado Boulder | GPA : 3.8/4

Aug 2022 - May 2024

Boulder, USA

Bachelor of Technology in Computer Engineering

Thapar Institute of Engineering and Technology | GPA : 8.62/10

Aug 2016 - July 2020

Patiala, India

SKILLS

Languages: Java, C++, Python, JavaScript, CSS, HTML, SQL, GraphQL, GoLang, Typescript, Next.js
Frameworks, DBMS: Spring, Spring Boot, Hibernate, Angular, React, Node.js, Express, Postgres, MySQL
Tools: OOPS, Design Patterns, Git, Kubernetes, Docker, JIRA, Kafka, AWS, Redis, WebSockets

EXPERIENCE

Zinnia

Software Engineer

May 2024 – Present

Boulder, USA

- Designed and implemented scalable **RESTful APIs** with Spring Boot, integrated authentication protocols like **OAuth** and **JWT**, optimizing data interactions and system integration.
- Integrated Kafka for high-throughput messaging and NoSQL for scalable data handling. Enabled real-time monitoring and debugging via **Datadog** log integration.
- Built reusable components for financial web applications using **React**, Next.js, JavaScript, TypeScript, and Node.js, significantly enhancing the digital buying experience and supporting end-to-end life insurance solutions.

Virufy

Capstone Project

Sept 2023 – May 2024

Remote, USA

- Engineered a data pipeline using Airflow and PySpark, optimizing the real-time processing and storage of large-scale Covid-19 patient data in S3 buckets to support high-throughput, low-latency applications. Conducted data analysis using **NumPy** and **Pandas** to derive actionable insights from the processed data which was fed into ML model.

Amdocs

Software Engineer

Sept 2020 – June 2022

Pune, India

- **AT&T Project** : Led the design and implementation of scalable financial systems using **Java** and **Spring**, increasing transaction capacity by 40% and enhancing system responsiveness with frontend technologies.
- Designed and maintained a CI/CD pipeline using GitHub, **Jenkins**, OpenShift, and **Terraform** to automate build, test (**65%** coverage), infrastructure provisioning, and deployment of microservices on commit to master/dev branches, ensuring consistent, scalable, and reliable delivery.
- **Impact** : Enhanced **Microservices** by creating a new package and hosting it in nexus repo which reduces errors by **26** percent due to deployment of the wrong version of microservices.
- **Deployment** : Worked on the generation of bills by ingesting and deploying the XML files which handled data of more than 3 million customers in ATT project using technologies like Spring Boot, Selenium, Java.
- Created Bash shell scripts in Linux to bootstrap, terminate and check the status of servers and automated the process of ingestion of bills for BriteBill and then improving the efficiency of deliveries by **13** percent.

Tata Motors

Graduate Engineering Trainee

Jan 2020 – Jun 2020

Thane, India

- **Product Development** : Developed the MyDrive web application platform, enabling file and folder uploads to Amazon S3, along with download, sharing capabilities, and expiration time settings. **JavaScript, ReactJS**
- **Impact** : The developed product was substantially able to reduce the costs by almost **15** percent that Tata Motors spent for platforms like OneDrive.

PROJECTS

- **Web UI for Stable Diffusion** : Implemented Web UI with Vue.js (frontend) and **Flask**, containerized by **Docker**. Developed RESTful APIs for seamless integration between frontend, backend, and S3 Bucket for image storage. Utilized Vue.js Vuex for session management. Deployed on GCP via **Kubernetes** for scalability and load balancing.
- **Budget Based Trip Planner** : Made a web application using **Vue.js** and **Flask** that offers personalized recommendations using a machine learning model, customizable itineraries, and weather information based on the user's budget and preferences like location. Streamlined deployment through a CI/CD pipeline and AWS services like **S3, Lambda, EC2, and ECS**.
- **Amazon Price Tracker** : Developed a price-tracking tool to monitor Amazon product prices. Users receive notifications of price drops or increases of the added product, empowering them to make informed purchasing decisions and potentially save money. Technologies used- **Redis, AWS, Flask, Grafana, RabbitMQ, CI/CD**.