

Shantanu Jain

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EDUCATION

Rutgers University - New Brunswick
Bachelor of Science in Computer Science

January 2024
New Brunswick, NJ

GPA: 3.3

Coursework: Data Management for Data Science, Prin of info and Data Management, Software Methodology, Software Engineering, Computer Architecture, Principles of Programming Languages, Calculus 1&2, Macroeconomics, Discrete Math, Data Structures, Linear Algebra, College Physics 1&2.

Awards: High Honors Roll, Dean's Lists

SKILLS

Languages: Java, C/C++, Python, JavaScript, CSS, HTML,

Frameworks & Libraries: React JS, Node JS, Numpy, Pandas, Scikit, TensorFlow, Plotly, PyTorch.

Databases: Oracle, MySQL, MongoDB, SQLite, NoSQL, Google BigQuery, Tableau.

Tools: Git, AWS Cloud, Docker, Linux, Jira, MS Office, VS Code, Github, RESTful APIs.

EXPERIENCE.

Research Intern - Rutgers University

May 2023 - Aug 2023

- Analyzed 5+ types of recommendation systems, evaluating performance across over 10 distinct application areas, identifying 5 key areas for improvement.
- Collaborated with a team of 4 to develop a full-stack web application using **Python**, **TensorFlow** and **SQL**, showcasing many different recommendation systems and proposing their potential enhancements.

UNIVERSITY PROJECTS

Uber Data Engineering Project

Oct 2022

- Performed data analytics on Uber's dataset using various tools, including Mage Data Pipeline Tool, Google Cloud Storage **Bucket**, Google **BigQuery** for Data Warehousing to identify transportation trends.
- Utilized **Google's VM Instance** for data cleansing, preprocessing and transformation, and data modeling. Established a streamlined data pipeline, resulting in sophisticated **data visualization** through **Looker**.

Path Finding Algorithm Visualizer Project

Sept 2022

- Built an interactive **React.js** application to visualize the workings of various pathfinding algorithms including Dijkstra's Algorithm, A* Search, Greedy Best-first Search, Swarm Algorithm, and Convergent Swarm Algorithm, each tailored for 2D grid navigation.
- Incorporated features for adjusting **visualization** speed, clearing paths or the entire board, introducing a bomb, and viewing tutorial guidance, ensuring an interactive learning environment.

Data Analysis and Data Management Project

May 2022

- Used python programming to analyze Excel data tables. Processed, corrected and visualized these datasets using **Pandas**, and **Numpy** libraries. Used **MySQL** database to store and manage the information.

E-Commerce Website

Feb 2023

- Collaborated with a team of four to develop a fully functional e-commerce website with a user-friendly interface, shopping cart, and payment processing functions using **ReactJS** and **AWS Amplify** to host the website.

LEADERSHIP EXPERIENCE/INVOLVEMENT

Public Relations Chair - Rutgers Commuter Association

Sept 2022 - May 2023

- Enhanced RCA's online presence by regularly posting on social media, which increased followers by 30%.

Treasurer - Rutgers Aviation Club

Sept 2022 - May 2023

- Administered \$3,000 budget, through record-keeping, allowing effective event execution and initiative planning.

EXTRACURRICULARS: Intramural Soccer, Quantitative Finance Club, and Phi Sigma Pi Honor-Fraternity.