

RAHULRAJ SINGH

Jersey City, NJ | (973) 459 - 6445 | rs4211@columbia.edu | [GitHub](#) | [LinkedIn](#) | [Portfolio](#)

SUMMARY

Result-oriented and data-driven product professional with 4+ years of experience building robust digital products. Strong technical background in working with data to make informed product decisions with a bias towards innovation, having positively impacted users from varied business domains like technology, gaming, education, manufacturing, energy, automobile, health, and supply chain

EDUCATION

Columbia University

New York, NY

Master of Science in Data Science

Sep 2021 – Dec 2022

Coursework: Statistics, Algorithms, Product Management, Data Modeling, Finance Analytics, Machine Learning, Time Series Forecasting

SRM University

Chennai, India

Bachelor of Technology in Software Engineering

Jul 2014 - May 2018

Coursework: Data Structures, Algorithms, Databases, Business, Artificial Intelligence, Web Development, Agile Project Management

EXPERIENCE

Northeast Big Data Innovation Hub

New York, NY

Product Manager

Dec 2021 – Present

- Guided the vision of an ed-tech startup's first web product aimed at solving data literacy problems for students and small businesses
- Built a global live online collaboration platform connecting industry professionals, researchers, and academicians working on big data problems, that hosted a consistent engagement of 100+ weekly active users since the first week of launch
- Managed a cross-functional team of 8 developers and designers to build an accessible open-source data science study repository
- Established Continuous Deployment (CD) release configuration for engineering team and integrated it with project tracking on GitHub

Tesla Motors

Fremont, CA

Technical Product Manager Intern

May 2022 - Sep 2022

- Led the development of a new machine learning product from inception to implementation for enhancing supply chain operations (order creation and logistics) across all Tesla entities globally, resulting in a reduction of transit costs by over 15%
- Audited 10+ product features for a demand forecasting software and built a product roadmap to improve its system design and functional architecture employing design thinking paradigms
- Collaborated with clients, designers, and developers to redesign a web application's frontend, stemming a 22% growth in user retention
- Initiated the migration of a legacy application from an existing Rest API and on-prem data architecture to GraphQL by implementing knowledge graphs, which led to a reduction in average data acquisition time by 30%

Microsoft Corporation

Bangalore, India

Software Engineer

Feb 2020 - Jul 2021

- Directed a feature design of automating data integration between acquisition and reporting servers for Xbox cloud gaming services, leading to an improvement in product reliability score by over 37% in two quarters
- Constructed performance metrics for 2000+ games played on Xbox by creating end-to-end automated workflows to acquire, process, store and report data from batch and live stream sources using Scope, Python and Spark Scripts
- Developed Rest API(s) for handling 100K+ concurrent front-end users and generating real-time reports on a web application
- Designed an automated CI/CD pipeline on Azure DevOps for testing, building, packaging, and releasing software updates to customers by merging code changes from 6 different code repositories in one go

Infosys Limited

Chennai, India

Senior System Engineer

Jan 2018 - Jan 2020

- Crafted and performed A/B experiments to ideate the creation of new product landing pages, increasing monthly returning users by 4% and reducing annual churn rate by 11%
- Analyzed product usage metrics across 18 global markets and approximately 40 million active users worldwide through custom-built Adobe Analytics reports and discovered a design gap introduced during market research

SKILLS

- Product - User Research, Requirement Analysis, Agile Methodologies, Project Roadmaps, Market Research, Feature Prioritization
- Analytics - SQL, Power BI, Adobe Analytics, MS Excel, A/B Testing, Knowledge Graphs, Tableau, Machine Learning
- Software Development - Python, Data Structures, Algorithms, Rest API Development, SCOPE Scripting, Git, System Design
- Cloud Services - Kanban, DevOps, Databricks, Splunk, Azure Data Factory, Data Warehouses, Hybrid Cloud, JIRA

CAPSTONE PROJECT

Johnson & Johnson (J&J)

New York, NY

Data Product Lead, Insurance Premium Price Prediction

Aug 2022 – Dec 2022

- Designed an algorithm using market data to predict commercial insurance payments for surgical procedures with over 85% accuracy and improved prediction performance by 15% in comparison to industry leading DataRobot solutions
- Managed project planning, direction, timelines and communication with stakeholders and project sponsors for a team of 6