DEVAM PATEL

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EDUCATION

Rutgers University   **New Brunswick, New Jersey**
Bachelor of Science in Computer Science with Data Science Minor   Expected May 2024 (Accelerated Path: 2023)
Cumulative GPA: 3.95/4.0

TECHNICAL SKILLS

Programming Languages: Python | Java | JavaScript | HTML/CSS | R | SQL | C

Libraries/Technologies: React | Django | Spring | Git | Pandas | Node.js | Numpy | MERN stack | Docker

Relevant Coursework: Data Structures | Algorithms | ML Principles | Computer Architecture | Data Science | Internet Technology | Software Engineering | Linear Algebra | Database Design

EXPERIENCE

Bank of New York Mellon   Jersey City, New Jersey
Incoming Software Engineer Intern   June 2023 – Present
- Designing and developing a CI/CD workflow using Kubernetes with Apache Spark
- Creating and testing unit tests using JUnit to increase code coverage in the Enterprise DataLake Mangement team

Paramount Global   New York, New York
Software Engineer Intern   June 2022 – November 2022
- Integrated a Django logging handler that notifies admin developers through emails upon encountering an API or database query error that fetches streaming data of over 200,000 programs
- Constructed a Postgres database migration on separate Docker containers for Development and Production PSQL databases

Aresty Research Center at Rutgers University   New Brunswick, New Jersey
Research Assistant - Data Analyst and Web Developer   June 2021 – August 2021
- Filtered and cleaned the raw dataset from NHANES archevial database of over 107,892 rows into a dataset that can be used for further statistical analysis, which improved the company productivity by 40%
- Analyzed age specific association between standing height and blood pressure from the NHANES database spanning from 1999-2020 of over 31,000 adults and estimated ratios using multivariate logistic regression using the Statmodels library
- Coordinated with a team of 3 interns to develop a full stack web-application using React.JS, Express, and Mongo Atlas Database (MERN stack) for a non-profit organization

Zindi Africa   Cape Town, South Africa
Data Analyst Intern   February 2021 – April 2021
- Queried databases using MySQL to identify which hackathons induce the greatest amount of submissions and entries and gauged user participation and identify target audiences which increased user engagement by 60% from last year
- Programmed a rule based probability model to flag any participants that are suspected of cheating in the data science hackathons using the submission data recorded by the company using Python and Jupyter Notebook
- Translated Jupyter notebooks from Python to R to make hackathons accessible to users who prefer R; 729 users enrolled and over half implemented this starter notebook to place on a Zindi leaderboard

PROJECTS

Travel App - MERN Stack (in progress)
- A web application which displays the recommended hotspots based on the location and the date given by the user. Developing the front-end with React, which implements states, props, and hooks to improve user engagement.
- Planning to implement a user portal with Express where the planned trip and favorite locations of the user are stored in the Mongo Atlas database.

Wells Fargo Fraud Detection Model - Python
- Built a classification model to predict elder fraud in the digital payments space with Python libraries such as Seaborn to visualize data and Random Forest Classifier from Sklearn to build the model with the accuracy of 93% and F1 score of 0.95.

Pizza Store Order Application - Java/Android Studio
- Android application, employing the MVC model, that processes customizable pizza orders, stores them in a MySQL database, and allow clients to conveniently view their orders.
- Implemented unit testing with JUnit to ensure the reliability and quality of the application with 85% code coverage

OTHER SKILLS AND INTERESTS

Activities: Quantitative Finance Club, Undergraduate Student Alliance of Computer Scientists, Data Science Club
Interests: Studying different cultures through travel journalism, playing soccer (Real Madrid fan), Formula One Racing