

DEVAM PATEL

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EDUCATION

Rutgers University

Bachelor of Science in Computer Science with Data Science Minor

Cumulative GPA: 3.95/4.00

New Brunswick, New Jersey

May 2024

TECHNICAL SKILLS

Languages/Frameworks: Python Java React Spring HTML/CSS R SQL C

Libraries/Technologies: Pandas Numpy Git Kubernetes Docker Apache Spark MERN stack

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

Software Engineer Intern

Jersey City, New Jersey

June 2023 – August 2023

- Developed a Java-based Spark streaming application, facilitating raw-data ingestion of 10,000+ data events per minute into the Datalake of Iceberg and S3, and achieving a 3x reduction in data processing latency compared to prior methods.
- Followed test driven development to ingest raw data with Apache Spark jobs with JUnit to sustain code coverage of 80%
- Spearheaded the design and implementation of a CI/CD workflow leveraging Docker, Helm Charts, and Kubernetes.
- Shadowed the senior architect, gaining insights into best practices for big data processing with Apache and AWS services.

Paramount Global

Software Engineer Intern

New York, New York

June 2022 – November 2022

- Developed an automated email notifier in Django that reduced API query error resolution time by an average of 2.5 hours.
- Streamlined the Postgres database migration process by leveraging Docker containers, ensuring minimal disruption to operations and maintaining data integrity of over 200,000 programs throughout the transition.

Aresty Research Center at Rutgers University

Research Assistant - Data Analyst and Web Developer

New Brunswick, New Jersey

June 2021 – August 2021

- Coordinated with a team of 3 interns to develop a full stack web-application using MERN stack for a non-profit organization
- Analyzed age specific association between standing height and blood pressure from the NHANES database spanning from 1999-2020 of over 31,000 adults and modeled ratios using multivariate logistic regression using the Statmodels library
- Implemented industry level practices of data cleaning and wrangling in Python to transform the raw dataset from NHANES archival database of over 107,892 rows into a streamlined dataset optimized for comprehensive statistical analysis.

Zindi Africa

Data Analyst Intern

Cape Town, South Africa

February 2021 – April 2021

- Programmed a Python-based, rule-driven probability model with submission data to automatically flag potential cheating among participants in company hackathons, which reduced the incidence of suspicious activities by more than 15 instances.
- Queried company data in MySQL to identify high-engagement hackathons, assess user participation, and target specific audiences, driving a 60% increase in user engagement compared to the previous year.
- 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 Planning App - MERN Stack

- A full-stack web application which displays the recommended hotspots based on the location and the date given by the user. Developed the front-end with React, which implements states, props, and hooks to improve user engagement.
- Implemented a user portal with Express where the users' favorite locations of the user are stored in Mongo DB.

HTTP Server with Cookie Authentication - Python HTML/CSS

- Developed an HTTP server in Python, with HTML for user interface, serving confidential user data, accessible through two authentication paths: valid username and password, or through previously established successful connections using cookies.

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; built with production level code practices and 85% code coverage

OTHER SKILLS AND INTERESTS

On-Campus 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