Rocco Vulpis

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EDUCATION

Stockton University, Galloway, NJ   May 2024
Bachelor of Science in Computer Science   Dean's List Fall of 2022

EXPERIENCE

Wilson Daniels   New York, NY
Data Analyst Intern   June 2024 – July 2024

- Developed Power BI dashboards using advanced DAX measures to track new points of distribution (PODs), providing sales reps with actionable insights and opportunities.
- Created and launched a live incentive tracker in Power BI using DAX and integrating with Azure SQL databases to enable real-time reporting.
- Performed data modeling in Power BI by joining tables and establishing relationships to ensure accurate reporting and insights, while integrating data from SQL databases for seamless analysis.
- Developed and implemented custom applications using Microsoft Power Apps to automate manual processes, increasing efficiency by 30% and streamlining workflows across three departments.
- Built automated workflows in Power Automate to trigger actions based on status changes in SharePoint lists, enhancing operational efficiency.

SIGNIFICANT COURSEWORK

- Data Structures and Algorithms I
- Data Structures and Algorithms II
- Software Engineering
- Web Applications Engineering
- Foundations of Computer Science
- Artificial Intelligence
- Computer Architecture
- Computer Organization
- Database Systems
- Networking Principles
- Discrete Mathematics
- Probability and Applied Statistics
- Calculus I
- Calculus II
- Calculus III

SKILLS

- **Java**: Knowledge of inheritance, abstraction, polymorphism, and interfaces in Object-oriented programming. Familiarity with Java Swing, JavaFX, and JFreeChart.
- **Python**: Experience in writing scripts for web scraping using BeautifulSoup4.
- **Full Stack Development**: Experience in full stack web development using the Flask framework, along with HTML, CSS, and SQL for front-end and back-end development.
- **Algorithms**: Familiarity with graph algorithms such as Breadth First Search, Depth First Search, Bellman-Ford, Dijkstra's, and Floyd-Warshall Algorithms.
- **Additional Skills**: C, C#, HTML/CSS, MySQL, JavaScript, React, DAX, Octave, MATLAB, Git, GitHub, Ubuntu, Kali Linux, Wireshark, Ettercap, Power Apps, Power BI.

RELATED COURSE PROJECTS

CSCI 4485 – Software Engineering

Headliners Barbershop

- Designed and implemented a scheduling app for a local barbershop using Flask, HTML/CSS, and Bootstrap.
- Organized meetings between five group members to discuss progress and further implementations.
- Pushed changes through Git client.

CSCI 3327 – Probability and Applied Statistics

Monty Hall Program

- Created a Monte Carlo simulation in Java to determine the likelihood of winning a game with three choices.

Stats Library

- Created a library of statistical functions in Java including Binomial, Geometric, Hypergeometric distributions which could be used to solve homework problems.

Poker Hands Program

- Developed a simulation in Java to determine the probabilities of possible poker hands.

Plotting, Salting, and Smoothing Program

- Developed a Java program using JFreeChart to generate, manipulate, and visualize data by plotting points, adding random noise, and applying smoothing algorithms to analyze trends.