

Rocco Vulpis

Howell, New Jersey 07731 | (732) 403-0022 | roccovulpis@gmail.com | <https://www.linkedin.com/in/rocco-vulpis> | <https://roccovulpis.com> | <https://github.com/roccovulpis>

EDUCATION

Stockton University, Galloway, NJ
Bachelor of Science in Computer Science

May 2024
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

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

SKILLS

- **JavaScript:** Familiarity with modern ES6+ features, DOM manipulation, and frameworks/libraries like React and Node.js.
- **Java:** Knowledge of inheritance, abstraction, polymorphism, and interfaces in Object-oriented programming. Familiarity with Java Swing, JavaFX, and JFreeChart.
- **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:** HTML/CSS, React, Bootstrap, Python, MySQL, C#, Vercel, DAX, Octave, Git, GitHub, Linux, 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.