

Rocco Vulpis

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EDUCATION

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

May 2024
Dean's List Fall of 2022

EXPERIENCE

Wilson Daniels

Data Analyst Intern

New York, NY
June 2024 – July 2024

- Developed and implemented custom applications using Microsoft Power Apps to automate manual processes, increasing efficiency by 30% and streamlining workflows across three departments.
- 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.
- 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 Express.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 React for dynamic, responsive frontends, Node.js with Express.js for backend API development, and MongoDB for data management.
- Algorithms:** Familiarity with graph algorithms such as Breadth First Search, Depth First Search, Bellman-Ford, Dijkstra's, and Floyd-Warshall Algorithms.
- Additional Skills:** HTML5/CSS3, React, Bootstrap, Python, MySQL, C#, Vercel, DAX, Octave, Git, GitHub, Ubuntu Linux, Kali Linux, Power Apps, Power BI.

PROJECTS

Splitzr | React, Node.js, Express.js, MongoDB

- Engineered and deployed an expense-splitting web application where users can create, split, and delete tabs.
- Designed a React front-end UI leveraging functional components, hooks, lazy loading with Suspense, and React Router for navigation.
- Developed a secure Node.js/Express.js backend with well-defined RESTful API endpoints, incorporating error handling and CORS configuration for reliable cross-origin requests.
- Integrated MongoDB with Mongoose to efficiently manage user data and bill records, enabling CRUD operations and real-time bill tracking.
- Implemented user authentication and authorization, including secure login and registration endpoints that use bcrypt for password hashing and JWT for token-based session management, along with middleware to protect sensitive routes.

Headliners Barbershop | Flask, HTML/CSS, Bootstrap

- Designed and implemented a scheduling app for a local barbershop using Flask for backend API endpoints and HTML/CSS with Bootstrap for a responsive design.
- Organized meetings between five group members to discuss progress and further implementations.
- Managed version control using Git to push changes to GitHub.