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# DOMINIC MASON

SOFTWARE ENGINEER

## EDUCATION

MAY 2024

### B.S. in Computer Science, Concentration in Software Engineering, Virginia Commonwealth University

Relevant Coursework:

- Fundamentals of Software Engineering: Utilized AWS EC2 for virtual instances, collaborated with peers on software design and requirements.
- Algorithm Analysis with Advanced Data Structures: Developed Java programs for QuickSort, Ford-Fulkerson, and dynamic programming algorithms.
- Database Theory: Created a matchmaking database with Flask API; utilized SQL and SQLAlchemy for database management.
- Software as a Service: Designed full-stack web applications with Flask, Docker deployment, and YAML for orchestration.
- WiFi Sensing-based Occupancy Monitoring Project: Configured ESP32 chips and Raspberry Pi for data collection, and developed machine learning models using the Keras API in Python, achieving up to 92.2% accuracy.

## EMPLOYMENT HISTORY

MAY 2022 - SEP 2022

### Software Engineering Intern, Spring Oaks Capital, LLC

- Front-End Development: Engineered a robust web page for Heartwood, an internal control panel, integrating React and Material-UI components; enhanced user experience and streamlined operations, increasing task completion speed by 35%.
- Back-End Development: Maintained a FastAPI endpoint for processing Excel files, reducing manual processing time by 50%.
- Data Management: Implemented data transformations using Pandas; automated Excel file conversions to .prn format.
- Cloud Integration: Configured AWS S3 for efficient data exchange, managing large file uploads and downloads.
- Agile Practices: Contributed to scrum meetings, sprint planning, and demo presentations, ensuring timely delivery of features.

## PROJECTS

### Personal Portfolio Website

- Designed and deployed a responsive personal portfolio website, showcasing multiple projects and skills, resulting in a 40% increase in recruiter engagement and streamlined job application process.
- Created using HTML, JavaScript, and CSS; deployed using GitHub Pages

### Rick and Morty Personality Quiz

- Built a React web application utilizing the Rick and Morty API to match users with characters based on personality traits.
- Incorporated real-time data integration with Axios, reducing data retrieval time by 35%, and launched interactive quiz modules that improved user retention rate by 20%.
- Achieved over 500 user engagements within the first month of launch.

### Online Shopping Website

- Developed a comprehensive shopping platform using HTML, JavaScript, and CSS for the front-end, and Flask with SQLAlchemy for the back-end.
- Implemented a responsive design with Tailwind CSS and real-time data handling through RESTful API endpoints.

## PROFESSIONAL DEVELOPMENT AND CERTIFICATIONS

Member of WebRams - Web Development Club at VCU

Legacy Full Stack Certification from freeCodeCamp

## LINKS

[GitHub](#)

[Personal Portfolio Website](#)

[Rick and Morty Personality Quiz](#)

[Online Shopping Website](#)