

Shan Malik

shanm3495@gmail.com | linkedin.com/shan-malik | github.com/ShanM5 | shanportfolio.tech

EDUCATION

Rutgers University

Bachelor of Arts in Computer Science

New Brunswick, NJ

Sep. 2020 – Dec 2024

Relevant Coursework *Data Structures, Software Methodology, Introduction to Data Science, Data Science for Data Management, Computer Architecture, Linear Algebra, Discrete Mathematics 1 and 2, General Physics, Calculus 1 and 2, Numerical Computing Analysis*

EXPERIENCE

Software Engineer Intern

Clocky

Jan. 2024 – July 2024

Remote

- Developed Python scripts facilitating the acquisition of crucial data on over 2000 potential retailers and distributors, enhancing the company's reach and market insights.
- Designed and implemented web scraping initiatives, and contributed to the development of embedded software for the latest hardware version of company products.
- Worked on developing and maintaining backend services using Python and frameworks such as Flask and Django.
- Designed a detailed data flow diagram and created test cases for the embedded software, ensuring smooth operation and user-friendly experience.

PROJECTS

Donut Store Application | *Java, JavaFX, System Testing, JUnit*

github.com/ShanM5/Donut-Store

- Built two versions of a donut store application, and created the backend in Java for both versions. One version utilized JavaFX and Scene Builder for the front end, while the other utilized Android Studio.
- Implemented a menu system with five sections: a main menu for navigation, a donut menu for ordering with a running total, a coffee menu for coffee orders, a basket menu for viewing and editing order contents, and a store orders menu to place, manage, and export orders to an external file
- Collaborated within a group, adhering to predefined coding standards and design requirements, and conducted system and unit testing to ensure accurate outcomes.

Presidential Social Media Sentiment Analysis | *Python, Pandas, Matplotlib*

Feb 2023 – March 2023

- Process tweets of a former presidential candidate into data frames, clean the data and study the dates and times of his tweets around election season to determine patterns.
- Study the devices and time of tweets that the candidate and their staff would use and the time tweets were usually sent using matplotlib visuals, and conduct sentiment analysis on his tweets, identifying the most positive and negative ones by aggregating the sentiment scores of individual words within each tweet.
- Performed principal component analysis (PCA) on the Twitter data to uncover prevalent patterns, trends, and recurrent expressions within the dataset.

Portfolio Website | *Python, Pandas, Matplotlib*

shanportfolio.tech

- Designed and developed my portfolio website, and hosted it using GitHub Pages
- Contains a "Home" screen, and a "Portfolio" section that showcases a few of my projects, with short descriptions and their respective GitHub repository links, an "Experience" section that details my work and class experience, an "About" section that lists my skills, and education experience and certifications, and a "Contact" section that has my email, links to social media, and a form for users to contact me through.
- Displays links to my GitHub, LinkedIn, and other social media profiles and a downloadable CV pdf.

TECHNICAL SKILLS

Languages: Java, Python, C, C#, HTML/CSS, JavaScript, SQL

Frameworks: Spring Boot, React, Node.js, Flask, JUnit, JavaFX

Developer Tools: Git, Docker, Visual Studio, PyCharm, IntelliJ, Eclipse, linux

Libraries: pandas, NumPy, Matplotlib