Nicholas (Nick) DeFelice

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Education

Virginia Tech, *Blacksburg, VA* — Expected Graduation - May 2024

BS Computer Science — GPA: 3.5/4.00

Minor in Human-Computer Interaction (HCI) — (In-major GPA: 3.63/4.00)

Relevant Coursework: Software Design, Computer Organization, Data Structures and Algorithms, Python Programming, Problem Solving in CS, Foundations of Security Environments, Human-Computer Interaction

Computer and Programming Skills

Programming:

Proficient in: Java, Python, C

Experience with: HTML, CSS, SQL, R, JavaScript

Software: Linux, Windows

Tools/APIs: Eclipse, JUnit, Git, VS Code, MS Word, MS Excel, MS PowerPoint, MySQL, PopSQL, Jupyter, GDB Testing, Overleaf, Figma

Experience

Teaching Assistant - Intro to Programming in Java, *Virginia Tech* — September 2022 - December 2022

- Assisted students with projects and homework related to Java, object-oriented programming, and other fundamental programming concepts
- Held office hours 4-5 days a week, which were available for up to 70 students
- Helped the instructor grade students' projects to evaluate their understanding of course content

Projects

"Spaceship Titanic" Machine Learning Competition, *Python, Seaborn, Jupyter* — December 2022 - January 2023

- "Spaceship Titanic" is a Kaggle machine learning competition where contestants must predict which passengers of an interstellar liner were transported in a spaceship collision during the year 2912
- Used Python to train a support vector machine model that predicted transported passengers with 77.577% accuracy
- Created various heat-maps and distribution plots using the Seaborn package to analyze data provided by Kaggle

Song and Artist Memory Management, *Java, Eclipse, JUnit* — November 2022 - December 2022

- Developed a memory management system using Java which interacts with command prompts provided by a user to insert and delete songs and their corresponding artists
- Terminal generates feedback to a user about the memory contents and the results of prompted tasks

COVID-19 Data Visualization, *Java, Eclipse, JUnit* — November 2021 - December 2021

- Developed a user interface using Java which displayed COVID-19 deaths through bar graphs that could be sorted by state and ethnicity
- Collaborated on a team of 3 to accurately interpret data provided by the CDC

Achievements and Awards

3x Dean's List: Spring 2021, Fall 2021, Spring 2022