Matthew Tobino

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Skills

Languages: Java, Python, JavaScript, C++, C, C#, HTML, JSON, CSS, PHP, MATLAB, Markdown, Arduino, Bash, YAML, XML

Databases: MySQL, MongoDB, Neo4j, SQLite

Tools: IntelliJ IDEA, VS Code, Eclipse, Visual Studio, Git/GitHub, Tableau, OpenRefine, Unreal Engine 4, Unity, Microsoft PowerBI, BluJay

Platforms: Windows, Linux, Microsoft Azure

Project Methodologies: Agile Scrum, Waterfall

Education

Bachelor of Science, Computer Science   May 2024

Concentration in Software Engineering

Rowan University, College of Science and Mathematics   Glassboro, NJ

- GPA: 3.85
- Academic Standing: Presidential Scholar's Excellence, Upsilon Pi Epsilon International Honor Society for Computer Science, Pi Mu Epsilon Mathematics Honors Society, Dean's List, Rowan Merit Scholarship

Computer Science Work Experience

Computer Science Department Tutor   Oct 2022–Present

Rowan University, Glassboro, NJ

- Guiding students through their studies in Computer Science, with a focus on Programming.
- Advising students in better ways to implement/design their methods/functions.
- Instructed students on effective manners of study, and ways to practice the topics that were reviewed.
- Providing tutoring in: (Not Limited To)
    - Intro to Scientific Programming – Java/Python/C++
    - Intro to Object-Oriented Programming
    - Object Oriented Programming and Data Abstraction
    - Data Structures and Algorithms
    - Design and Analysis of Algorithms
    - Computer Lab Techniques (C and Linux)

Computer Science Project Experience

Personal Website (for additional information and projects)

Mission Training Optimizer | Project Webpage

- Managed a team of five using the Agile Scrum methodology and served as the Product Owner.
- Managed the product backlog, delegated tasks, served as a liaison to the client, and programming and appearance of the final product.
- Created an Internal API for the client to aid in discovering any trends about their Training data.
- Takes in a formatted Excel sheet of mission data or a manual entry of data, updates a database, and communicates with PowerBI to showcase trends and visuals of the database data.
- Built a custom-made login system utilizing an Azure MySQL Database to store and verify login information when a request is made.
- *Tech Stack*: Node.js, Azure MySQL Database, Azure Web Application, Microsoft PowerBI, Bootstrap, GitHub

Sudoku Solver | [Project Webpage](#)
- Analyzed a formatted sudoku file, converted the board into a SAT problem, solved the SAT problem, converted it into the solution for the sudoku board, and printed the result.
- Utilized the open-source API Sat4j to solve the SAT problem.
- Solved boards of various sizes such as the classic 9x9, 4x4, and 16x16.
- Completed a 25x25 board in 1.6 seconds.
- *Tech Stack:* Java, Maven, GitHub, Sat4j API

Call Center Simulation | [Project Webpage](#)
- Evaluated user input through a GUI, ran a simulated call center, and printed relevant statistical data, including Poisson distribution chart of the service time for the calls, and a table of the customers with their individual data
- Gathered relevant data from a CSV file and used the information to perform calculations
- Concluded that three employees and eight hours of simulation provided the most optimal results
- *Tech Stack:* Python, GitHub

MC1-2018 Vast Challenge | [GitHub Page](#)
- Found numerous relationships in the data through visualizations made in Tableau
- Graphed out data on a webpage utilizing the D3 JavaScript Library
- Utilized Python and Bash for data cleaning and extraction to aid creation of D3 visuals and audio files
- *Tech Stack:* JavaScript, HTML, CSS, D3, Tableau, Python, Bash, GitHub

NBA Stats | [GitHub Page](#)
- Enter NBA player name or portion of their name and enter a season within the range of the program to retrieve the statistical information of that player from that season
- Utilized the open-source API to capture comprehensive player statistics
- Analyzed retrieved statistical data to provide user with useful information
- Organized data in simple and effective format for user experience
- *Tech Stack:* JavaScript, HTML, CSS, NBAStats API, GitHub

Work Experience

Sales Associate   Jun 2019—Aug 2023
Flynn O'Hara Uniforms, Holmdel, NJ
- Developed strong leadership skills through experience as a sales associate, effectively communicating with team members and customers to provide exceptional service and support
- Helped acclimate new hires to their work environment
- Handled customer transactions and orders at the cash register

Clubs and Organizations

Upsilon Pi Epsilon | *Senator*   Jun 2023 – Present
- Attend bi-weekly Student Government Association meetings to discuss student and university issues
- Contribute to the club's educational programs by instructing peers on programming topics
- Take an active role in planning and executing club events

Snowboard and Ski | *Member*   Sep 2021 – Present
- Participate in full-day trips to mountains to snowboard with peers
- Promote the club to students to encourage others to try the sport