

Matthew Tobino

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Education

Bachelor of Science, Computer Science, Concentration in Software Engineering
Rowan University, College of Science and Mathematics
Cumulative GPA: 3.9

May 2024
Glassboro, NJ

Skills

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

Databases: MySQL, MongoDB, Neo4j, SQLite

Tools: IntelliJ IDEA, VS Code, Eclipse, BluJay, Git/GitHub, Tableau, OpenRefine, Microsoft PowerBI

Platforms: Windows, Linux, Microsoft Azure

Project Methodologies: Agile Scrum, Waterfall

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 information about their Mission 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.
- Uses 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 with the creation of the D3 visuals and audio files.
- Tech Stack: JavaScript, HTML, CSS, D3, Tableau, OpenRefine, 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
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Work Experience

Computer Science Department Tutor
Rowan University, Glassboro, NJ

October 2022–Present

- 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
 - 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)

Sales Associate
Flynn O'Hara Uniforms, Holmdel, NJ

Jun 2019 - Aug 2023

- 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.
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Awards

- Upsilon Pi Epsilon–International Honor Society for the Computing and Information Disciplines
- Presidential Scholars of Excellence (2022 – 2023)
- Dean's List (2020 – 2022, 2023)
- Rowan Merit Scholarship