Sam Rowe

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Objective: Full-time employment that will make use of my experience working on Agile software development teams, and knowledge of many modern programming languages while providing opportunities for continuous growth.

Education

Bachelor of Sciences in Computer Science Class of 2023
Worcester Polytechnic Institute *Worcester, MA*
- 3.78 GPA

Master of Sciences in Computer Science Class of 2023
Worcester Polytechnic Institute *Worcester, MA*
- 3.70 GPA

Relevant Coursework
Worcester Polytechnic Institute *Worcester, MA*
- Software Engineering
- Artificial Intelligence
- Machine Learning
- Object-Oriented Analysis and Design
- Operating Systems
- Advanced Computer Networks
- Database Management Systems

Technical Skills

Languages: Python, Java (incl. JavaFX), C/C++, SQL/SQLite, Apache Hadoop, Kotlin, MATLAB, LaTeX
Software: Docker, git, GitHub, GitKraken, JetBrains IDEs, VMware/VirtualBox, MS Office 365
Operating Systems: Windows, Linux (Ubuntu, Debian/Raspbian)

Relevant Projects

Software Engineering (in collaboration with Brigham & Women's Hospital) | *Java* Mar 2021 – May 2021
- Worked in a ten-person student team in a class competition to apply Agile development methodologies and software design patterns in Java to create an indoor path-finding application, map builder, COVID-screening survey, and integrated service request modules.
- Placed 1st in the competition alongside another team
- As an assistant lead software engineer, I helped gather software requirements via survey, interview, brainstorming, user story creation, scenarios, and storyboards. I was responsible for designing and writing UI, service request modules, and database integration.
- As an assistant project manager, I was jointly responsible for managing project tasks, coordinating and running task planning meetings, and motivating all team members.

Major Qualifying Project (MQP): Seethrough VR | *Python, LaTeX* Aug 2022 – Mar 2023
- Worked with a team of six to create an augmented reality RC car application. Developed a webserver capable of remotely handling commands sent to a Raspberry Pi while streaming a video feed from an attached camera.
- Wrote and formatted a formal report using LaTeX.

Interactive Qualifying Project (IQP): Predict the Price of a Stock | *MATLAB, LaTeX* Aug 2021 – Mar 2022
- Worked with a team of five to create multiple prediction models (Fourier, Savitzky-Golay) within MATLAB, utilizing real-world stock data sourced from (finance.yahoo.com) to make short-term price predictions during a simulated trading period.
- Wrote and formatted a formal report using LaTeX.

Artificial Intelligence | *Python* May 2022 – Aug 2022
- Adapted a hand symbol recognition project to parse the ASL alphabet through a user's webcam via OpenCV and MediaPipe.

Advanced Computer Networks | *Python* Mar 2022 – May 2022
- Researched and planned creation of "Centrally-Managed Perimeter Access Control" project, an OpenFlow powered software-defined network firewall for honeypotting bad-actors en masse, based on paper by Prof. Craig Shue.