Mason Powell

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I am a senior at WPI looking for a full-time job that will utilize my background working on agile software development projects and my expertise in numerous programming languages, both front and back end.

EDUCATION

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

WORK EXPERIENCE

Store Clerk   Sep 2017 – Aug 2021
Party City   *Raynham, MA*
- Handle store opening and closing
- Maintain inventory on shelves and backroom storage
- Provide assistance to customers
- Work with customers to plan parties, weddings, and other events

RELEVANT COURSEWORK

CS3733 Software Engineering (in collaboration with Brigham & Women's Hospital) | *Java*

Ten person student teams working in a class competition to apply Agile development methodologies and software design patterns in Java to create an indoor pathfinding application, map builder, COVID-screening survey, and integrated service request modules for Brigham & Women's Hospital. The software systems that student teams created were to inform the hospital representatives about potential features, user interfaces, or design approaches that they might consider implementing.

- As a project manager, I was responsible for managing project tasks, coordinating the team, and keeping all of the members motivated
- As a product owner, I maintained the product backlog and sprint backlog. I also coordinated the team's sizing and prioritizing of user stories
- As part of the UI team, wrote code daily to interface with the algorithm and database teams

CS4516 Advanced Networks | *Python*

Researched and implemented the creation of a "Centrally-Managed Perimeter Access Control" project, an OpenFlow powered software-defined network firewall for honeypotting bad-actors, based on paper by Prof. Craig Shue.

Major Qualifying Project (MQP): Seethrough VR | *Python LaTeX*

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.

Interactive Qualifying Project (IQP): Predict the Price of a Stocking | *MATLAB LaTeX*

Created multiple prediction models (Fourier, Savitzky-Golay) within MATLAB, utilizing real-world stock data sourced from(to make short-term price predictions during a simulated trading period.

CS 4241 Webware Computational Technology For Network Information Systems | *Javascript*

Creation of a two-tier web application with a SQLite database, OAuth login, and React components.

TECHNICAL SKILLS

Languages: Java (incl. JavaFX), C/C++, Python, HTML/CSS, JavaScript, Kotlin, SQL/SQLite, MATLAB, LaTeX
Software: Docker, git, GitHub, JetBrains IDEs, VMware/VirtualBox, Office 365
Operating Systems: Windows, Mac OS, Linux (Ubuntu & Debian/Raspbian)
Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI