Trent Howe

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Education

University of Pittsburgh - Swanson School of Engineering *Pittsburgh, PA*

B.S. in Computer Engineering, 3.3 Cum. GPA Sep. 2019 - July 2023

Certificate in Quantum Computing and Quantum Information

Chaser/Seeker on Pitt Quidditch Team

Relevant Work Experience

Philips *Pittsburgh, PA*

Software Engineering Intern May. 2021 - Aug. 2022

- Refactored legacy microservice component tests in Java using RESTful API's to separate testing framework meant for simpler, easier to read tests, **improving test failure rate from 5% to 0%**
- Helped create a new onboarding curriculum for remote new hires and helped shape it for future employees in hybrid/remote positions
- Gained experienced with the Agile Scrum Methodology by actively participating in daily stand- ups and Sprint rundowns, as well as learning the DevOps lifecycle (using Rally, TeamCity, Git)

University of Pittsburgh *Pittsburgh, PA*

Teaching Assistant Aug. 2020 - May 2021

- Assisted teaching 2 semesters of Engineering Computing courses (in C and MATLAB)
- Held weekly office hours to help students with understanding and completing programming assignments
- Evaluated/graded homework, projects, and examinations for students, providing constructive feedback

Miscellaneous Work Experience

Macy's
Online Fulfillment

Glass Bagging Enterprises
Crew Member

Alpacas of the Alleghenies
Landscaper

Languages/Technologies

Programming Java, C++, C, Python, VHDL, MATLAB

Technologies Git, IntelliJ IDEA, Jira, Visual Studio Code, Qt, Jira, RESTful API's, Arduino

Projects

Pittsburgh Train Extension (Simulation)

(C++, Javascript, Qt UI)

- Designed a simulation of a functional train extension to Pittsburgh with a team of 4
- Created an interactive train and track model, as well as a live routing system using optimal pathing
- Developed a Qt UI to control the multiple train program interfaces

Relevant Coursework

Programming

Intro to Programming (*Java*), Engineering Computing (*C, MATLAB*), Object Oriented Programming (*C++*), Data Structures and Algorithms (*C++*), Systems and Project Engineering (*C++*) , Algorithms with Big Data (*Python*), Algorithmic Thinking (*Python*)

Systems

Computer Organization and Architecture, Embedded Systems Design, Systems and Project Engineering, Embedded Processors and Interfacing, Digital Systems, Computer Networks, Nanotechnology and Nanoengineering