

Drake W. Maguire

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EDUCATION

University of Pittsburgh

Bachelor of Science in Computer Science

GPA: 3.932

Pittsburgh, PA

January 2025

- **Relevant Coursework:** Discrete Mathematics, Algorithms and Data Structures 1, Big Ideas in Computing and Information, Linear Algebra, Algorithms and Data Structures 2, Formal Methods in Computer Science, Computer Organization and Assembly Language, Calculus 1, Intermediate Programming

Central Catholic High School

High School Diploma

Oakland, PA

June 2021

RELEVANT PROJECTS

Car App

February 2022

- Developed using Java along with JavaFX and Scene Builder
- The aim was to create a simple looking application that let the user select a car and color and other add-ons
- This produced a program displaying an interactive interface that shows the picture of the car, a description, price, add-ons, color, and type

Taylor Series Graph

April 2022

- Designed in Java along with JavaFX and Scene Builder using recursive calls
- Goal was to compute and graph the Sine Taylor Series approximation using an XY chart in JavaFX
- This led to an API that displayed both the approximation and sine graph by asking the user to input the graphs desired domain and number of terms.

Really Long Number Calculator

September 2022

- Crafted in Java using arrays, loops, and various methods to store large sequences
- The intent was to store very large numbers that surpassed the max value of integers in java so that operations could still be performed with them
- Gave rise to a program that can add, subtract, and compare very large numbers

PROFESSIONAL EXPERIENCE

Undergraduate Teaching Assistant: Introduction to Programming

January 2023 – Present

University of Pittsburgh

Pittsburgh, PA

- Guide students in solving and debugging coding problems and assignments
- Create lesson plans and PowerPoints to teach coding concepts to students
- Assist teacher with lesson plans and coding problems

Target Team Member: General Merchandise

May 2022 – Present

Target

Pittsburgh, PA

- Assist guests with technology related questions relating to computer memory, processing speed, computer parts, and Wi-Fi routers
- Manage equipment such as powerlifters and pallet jacks
- Train incoming employees in stocking, equipment use, and various tasks throughout the store

Student Concierge

August 2021 – May 2022

University of Pittsburgh

Pittsburgh, PA

- Serve as a visible positive safety resource for Students, Faculty, and Staff through maintaining COVID-19 protocols such as the proper use of mask-wear and proper physical distance
- Provide guidance about building entry procedures, including the need to swipe/tap university ID cards
- Observe and report incidents of nonconformance using previously established protocols

SKILLS & ADDITIONAL INFORMATION

Technical: Coding Languages: Java (Scene Builder, JavaFX), Python, HTML, CSS

Professional Interests: Software Engineering, Cyber Security, Networks, Data Management