Drake W. Maguire

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EDUCATION

University of Pittsburgh   Pittsburgh, PA
Bachelor of Science in Computer Science   **January 2025**
GPA: 3.95

- **Relevant Coursework:** Web Applications, Intro to Systems Software, Interface Design Methodology, Algorithms and Data Structures 1 & 2, Discrete Math for CS, Computer Organization and Assembly Language, Calculus 1 & 2

Central Catholic High School   Oakland, PA
High School Diploma   **May 2021**

PROFESSIONAL EXPERIENCE

Undergraduate Teaching Assistant   **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 such as variable types, arrays, and linked lists
- Assist professor with lesson plans and setting up coding projects
- Courses - Intro to Computer Programming and Intermediate Programming

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   **June 2021**

RELEVANT PROJECTS

Really Long Number Calculator   **September 2022**

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

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.

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

SKILLS & ADDITIONAL INFORMATION

Technical Skills: Java, Scene Builder, JavaFX, Python, HTML, CSS, Mips, C
Professional Interests: Software Engineering, Cyber Security, Networks, Data Management