Aaron Gan

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🎓 EDUCATION

Computer Science, *University of Pittsburgh*   08/2022 – 05/2026
                                                                                Pittsburgh, PA

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Computer Organization & Assembly, Computer Architecture, Software Quality Assurance

🧩 PROJECTS

Controls Team Lead, *Sailbot @ Pitt* ↗   08/2022 – present

- Developing software and electrical systems for an autonomous sailboat built on ROS2
- Mentoring members by leading workshops on Git, ROS and soldering
- Enabling software/hardware communication by writing interfaces for motors and sensors
- Improving code reliability and deployment with PyTest, Docker and devcontainers
- Designed event and GPS navigation autonomy, earning 3rd place in an international competition
- Earned 1st place in a search event by improving buoy detection accuracy with AI using YoloV8, OpenCV and Roboflow

💼 PROFESSIONAL EXPERIENCE

Summer Tech, *Central Bucks School District*   06/2024 – 08/2024

- Supported district-wide 1:1 program by servicing, imaging and distributing over 6,200 laptops and ipads to K-12 students

Course Assistant, *University of Pittsburgh*   12/2023 – 07/2024

- Collaborated with professors to release an online data science course to over 300 enrolled students
- Created programming questions to test knowledge of Python, Pandas and NumPy
- Improved course scalability by automating code submission grading

Intern, *North Star Access Consulting*   05/2023 – 09/2023

- Assisted a venture capitalist firm's financial projections of an oncology drug by developing a web scraper to collect multiple myeloma transplant rates
- Supported a pharmaceutical company's goal to optimize $500M in annual drug sales by analyzing how generative AI could be leveraged to reduce costs and increase prescription volume
- Provided strategic insight on how A/B testing and predictive analytics could be used to minimize insurance appeal costs by referring patients to free goods

🧠 SKILLS

Python, C/C++, Java, R, JavaScript   Git, Linux, ROS2, Docker, Excel