

William Lee

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EDUCATION

University of Pittsburgh

Bachelor of Arts in Computer Science, Minor in Information Science

- GPA: 3.6

Pittsburgh, PA

Expected December 2025

RELEVANT COURSEWORK

University of Pittsburgh

Data Structures and Algorithms, Discrete Structures, Database Systems, Web Development, Operating Systems

EXPERIENCE

Undergraduate Research Assistant

KiTLab at the University of Pittsburgh

April 2023 - April 2024

Pittsburgh, PA

- Collected and systematized data for the study of mathematical pattern recognition in children
- Wrote scripts in Ruby to perform data analysis in Datavyu
- Manipulated cells/columns within Datavyu software to help gather and import data

TartanHacks Organizer

ScottyLabs at Carnegie Mellon University

February 2025

Pittsburgh, PA

- Managed event logistics by coordinating with sponsors and volunteers to follow timelines
- Assisted in organizing workshops, judging sessions, and networking opportunities to enhance participant experience

PROJECTS

Pitt Challenge Hackathon: Stress Testers | *Python, Jupyter Lab, NLP, Pandas*

September 2023

- Created a machine learning model to track burnout risk of healthcare employees
- Implemented natural language processing using TF-IDF to analyze keywords within sample group
- Visualized the sentiment analysis using a logistic regression model to categorize samples (+ / -)

Virtual Machine Graphics Library | *C, QEMU, Linux, WinSCP*

September 2024

- Developed a simple graphics library in C using strictly system calls
- Utilized QEMU to run Linux as a guest OS to copy files in and out of Pitt Linux server
- Implemented methods using a frame buffer as a graphics device to display pixel data in the terminal

CLUBS & LEADERSHIP

University of Pittsburgh Jazz Band

Vice President

April 2024 – Present

- Collaborated with the board to arrange purchasing scores for jazz band performances
- Helped with organization and supervision over jazz band auditions
- Responsible for helping organize and schedule sectionals within the bands

VALORANT Club at Pitt

Club President

August 2023 - Present

- Coordinated all club events and group meetings within the academic year with board members
- Structured Discord server to announce events and facilitate club growth
- Collaborated with Esports at Pitt club to host a competitive VALORANT tournament for students

TECHNICAL SKILLS

Languages: Java, Python, C, SQL (MySQL, PostgreSQL), HTML/CSS, JavaScript, R

Frameworks: Datavyu, React, TailwindCSS, Pandas, Matplotlib, Flask

Developer Tools: GitHub, VS Code, Eclipse, QEMU, VirtualBox, Apache Maven, Selenium IDE