

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

Applications Development Intern

Howmet Aerospace

May 2025 - Present

Pittsburgh, PA

- Helped with implementation of novel reporting software Orbit Analytics across three production instances
- Developed new reports in target modules to meet project deadlines and provide deliverables to end users
- Played key role in quality control testing to validate requirements and migrate new reports

PROJECTS

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

Summoners War Counters Website | React, Vercel, AWS S3

April 2025 - Present

- Created a website in React to store and log battle information from the video game Summoners War
- Stored data sets in Amazon Web Services S3 Buckets and accessed via front end to display information
- Originated project with Node.js backend using Express to retrieve data from local JSON files

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

TECHNICAL SKILLS

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

Frameworks: Datavyu, React, TailwindCSS, Pandas, Matplotlib, Flask, Node.js, AWS S3, Vercel

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