

Alan Hu

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Education

Bachelor of Applied Science in Engineering, Queen's University, Kingston ON Sept 2022 – Present

- 2nd Year Computer Engineering at Smith Engineering

Work Experience

Engineering Building Supervisor, Engineering Society of Queen's University, Kingston ON Sept 2023 – Present

- A resource to engineering students in the Queen's Engineering Building by supervising the building after faculty hours.
- Providing students access to special equipment in the engineering building which includes Arduinos and analogue circuits.

Apprentice Sprinkler Fitter, Vortex's Fire Protection, Toronto ON June 2021 – Sept 2021

- Collaboration with teammates to cut openings that accommodate for specific pipe sizes.
- Reviewed blueprints and project specifications to determine the correcting plumbing solutions at 3 different sites.
- Calculated the point loads of the pipes to ensure proper strength and instalments of plumbing solutions.

Co-Curricular Activities

Data Analyst Coordinator, Queen's Data Analytics Association, Kingston ON April 2024 – Present

- Hold tutorials and talks on topics such as Data Engineering/Mining, Statistical Analysis, Cloud Computing, Data Visualization and Presentation, and Sector-Specific Data Analytics.
- Working with companies and design-teams to extract data and identify valuable data patterns, trends, correlations, etc. from datasets.

IT Operation Manager, Engineering Society of Queen's University, Kingston ON April 2024 – Present

- Leading a team of students responsible for handling IT-related duties, which included resolving IT support tickets, overseeing user accounts in Microsoft Azure, and maintaining the operational integrity of EngSoc IT infrastructure.
- Understanding the core functions of an organization's IT system to develop and implement monitoring solutions for the Engineering Society's IT infrastructure, acquiring skills in server management and network security.

Enactus, Queen's University, Kingston ON Sept 2023 – April 2024

- Working with a team of seven to create innovative and self-sustaining projects/businesses that advance the economic, social, and environmental health of communities around the world.
- Presenting to Enactus bi-weekly to discuss potential sustainable business solutions that improve the social, economic, and environmental well-being worldwide.

Engineering Orientation Committee Member, Queen's University, Kingston ON Nov 2022 – Sept 2023

- Teamwork and collaboration with 15 other committee members to oversee upcoming 2023 orientation week for 1000 first year engineering students.
- Hired, managed, and trained 400 orientation week leaders.
- Created an itinerary plan to oversee risk, safety, numbers of students, etc.

Projects

Pacman Game

- Developing a working Pacman game in C
- Utilized concepts of recursion to simulate an enemy non-playable character.

Excel Spreadsheet

- Using data structures and algorithms to mimic the functionality of excel spreadsheet.
- Concepts of linked lists and arrays to create dependencies for each cell.

To Do List Website

- Created a To Do List website using Python libraries Flask and SQLAlchemy, HTML, and CSS
- User inputs their task, storing it inside a SQL database and outputting the task using Python.

Walking or Jumping Prediction Model

- Designed a machine learning desktop app to distinguish whether a dataset was jumping data or walking data.
- Visualized the data in various ways, preprocessed the data by filtering the data using simple moving average.
- Added features and normalized the data to train the classifier.

Skills

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- Programming: C, HTML/CSS/JS, Python, SQL, Java
 - Tools: Microsoft Office, Microsoft Word, Microsoft Excel, GitHub, and Solidworks