WILLIAM LI
COMPUTER ENGINEERING (2026)

- ✉ W553Li@uwaterloo.ca
- 🌐 https://w553li.github.io
- 📞 1 (403) 613-6652
- in william-li-a893a5229
- ⚙ W553Li

SKILLS AND INTERESTS

LANGUAGES AND FRAMEWORKS: Java, C/C++, Python, JavaScript, HTML, CSS, PHP, Laravel

TOOLS: Git, Jira, MS Office, MS Azure, MS PowerBI, Photoshop, PhpStorm, Intellij IDEA, VS Code, MySQL Workbench, XAMPP

CERTIFICATIONS

Microsoft Azure
- Microsoft Azure Fundamentals
- Microsoft Azure AI Fundamentals

EMPLOYMENT

HEALTH AND REHAB RESEARCH INC
June 2023 - Aug. 2023
Machine Learning Engineer
Mississauga, ON
- Developed a Python application to take in video feed and track 33 key landmarks of an individual alongside predicting 4 additional landmarks of the body in real time, which was adopted by 4 health teams.
- Created an interface for and integrated the above application with an emotion prediction model to simultaneously track an individual's movement and emotions during exercises.
- Built a neural network to utilize an individual's recorded movement and emotion data to predict emotions with an 85% accuracy to further diagnose chronic lower back pain for patients.

ROGERS COMMUNICATIONS
Sept. 2022 - Dec. 2022
Network Engineer
Brampton, ON
- Led a project to automate monthly processing and export of key-performance indicators via Python scripts, resulting in a 95% reduction of time compared to manually generate report.
- Developed a PHP web application enabling export of team-specific core data, and processing of imported data files via Python scripts for database storage, which was adopted by 15 core engineering teams.
- Wrote Groovy scripts to explore the automation of a variety of Python scripts and libraries entirely within Jira Cloud.

WATERLOO EXPERIENCE ACCELERATE PROGRAM
Jan. 2022 - Apr. 2022
AI for Financial Services Project Team Member, Microsoft – Azure & AI Fundamentals
Waterloo, ON
- Oversaw Security and Privacy procedures while part of a 5-member group tasked with planning a financial service utilizing AI under the mentorship of an RBC member.
- Designed a financial service using MS Azure Machine Learning and MS SQL Database to provide accessible and personalized investment recommendations.
- Planned a financial info Q&A bot utilizing MS Azure's QnA service trained using a knowledge base supplied with general investment info provided by financial institution advisors.

PROJECTS

TODO LIST | HTML, CSS, JAVASCRIPT, FIREBASE
July 2023 - Aug. 2023
- Link: ToDoList
- Web-based Todo list with a vanilla front-end and a back-end using Firebase database to maintain Todo list items.
- Utilized event listeners for real-time control of list items and animations.
- Implemented auto-scaling interface for adaptability to the user's screen size.

PERSONAL PORTFOLIO | HTML, CSS, JAVASCRIPT
Sept. 2022 - Nov. 2022
- Links: Github | https://w553li.github.io
- Web-based personal portfolio website detailing some of my previous experience, projects, and hobbies.
- Utilized mouse event listeners for unique animations of buttons and backgrounds.
- Integrated all screens onto one page, allowing seamless transitions between all screens and sections.

CANDLELIGHT | JAVA
Feb. 2022 - Apr. 2022
- Link: Candlelight
- Window-based roguelike game featuring an endless dungeon of increasing difficulty.
- Designed custom randomizers for stages, enemies, and items for a unique experience across every playthrough.
- Implemented real-time updating for player health, mana, and special ability bars alongside boss health bar.