

# William Li

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## EDUCATION

### University of Waterloo

Waterloo, ON

*Pursuing BAsC in Computer Engineering*

*Sept. 2021 – Apr. 2026*

- Relevant Coursework: Data Structures & Algorithms, Compilers, Computer Networks, Computer Security, Discrete Math, Database Systems, Machine Learning, Operating Systems

## EXPERIENCE

### Health and Rehab Research Inc

June 2023 – Aug. 2023

*Machine Learning Engineer*

*Mississauga, ON*

- Developed a Python application for real-time tracking of 33 key body landmarks and prediction of 4 additional landmarks, adopted by 4 health teams.
- Created a Tkinter interface and integrated an emotion prediction model for the above application, enabling simultaneous movement and emotion tracking during exercises.
- Built a neural network achieving 85% accuracy in predicting emotions based on recorded movement data to support chronic lower back pain diagnosis.

### Rogers Communications

Sept. 2022 – Dec. 2022

*Network Engineer*

*Brampton, ON*

- Led a project to automate monthly processing and export of key-performance indicators using Python scripts, reducing manual report generation time by 95%.
- Developed a PHP web application enabling export of team-specific core data, and processing of data files via Python scripts, which was adopted by 15 core engineering teams.
- Wrote Groovy scripts to explore the automation of Python-based workflows within Jira Cloud, improving operational efficiency.

### Waterloo Experience Accelerate Program

Jan. 2022 – Apr. 2022

*AI for Financial Services Project Team Member, Microsoft – Azure & AI Fundamentals*

*Waterloo, ON*

- Led security and privacy procedures for a 5-member team designing an AI-driven financial service under RBC mentorship.
- 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

### ASTunnel | *JavaScript, ReactJS, React Bootstrap, TensorFlowJS, ThreeJS*

Feb. 2025 – Mar. 2025

- **Link:** [ASTunnel](#)
- Developed an interactive web game leveraging TensorFlowJS and ThreeJS to facilitate ASL learning.
- Utilized TensorFlowJS for real-time ASL gesture recognition via webcam-based computer vision techniques.
- Designed an intuitive React-based UI to provide an engaging and accessible learning experience.

### Budget Tracker | *JavaScript, ReactJS, React Bootstrap, Supabase*

Mar. 2024 – Mar. 2025

- **Link:** [Budget Tracker](#)
- Built a budget management application with a React frontend and a PostgreSQL backend using Supabase.
- Implemented real-time updating charts and trackers for seamless budget and expense management.
- Integrated authentication and user management with Supabase, allowing secure access to financial data.

## TECHNICAL SKILLS AND CERTIFICATIONS

**Programming Languages:** Python, C, C++, Java, JavaScript, HTML/CSS, PHP, MySQL, MATLAB

**Technologies:** Keras, Scikit-Learn, TensorFlow, OpenCV, Flask, Vite, ReactJS, Node.js, Bootstrap, Tailwind CSS

**Developer Tools:** Git, Jira, MS Azure, MS PowerBI, VS Code, IntelliJ IDEA, PhpStorm, MySQL Workbench, Supabase, Firebase

**Certifications:** [MS Azure Fundamentals](#), [MS Azure AI Fundamentals](#)