

Taiwu Chen

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EDUCATION

University of Calgary

Bachelor of science, Software Engineering

Cumulative GPA 3.4

Expected Graduation, May 2026

SKILL

- Language: Python, C/C++, Java, HTML, CSS, JavaScript, Assembly, PHP, SQL
- Framework/Libraries: React, Angular, Pandas, NumPy
- Tools: Git, Linux, Bash, Excel, PostgreSQL, MySQL

EXPERIENCE

Database Administrator intern

Tongdao First People's Hospital

Hunan, China

August 2024

- Generated and distributed over 200 customized Excel reports monthly, reducing data request processing time for 7 departments
- Executed complex SQL and database queries to analyze 5000+ patient records (e.g., those above 50 who underwent Chemotherapy), with 100% accuracy
- Ensured data confidentiality while handling database queries, adhering to healthcare data protection standards
- Collaborated with healthcare professionals to understand and fulfill specific data requirements for patient care and research purposes

Full Stack Developer intern

Converging Media of Tongdao Dong Autonomous County

Hunan, China

July 2024

- Implemented advanced JavaScript functionality to enhance site functionality
- Developed a calendar feature allowing users to filter videos by specific dates, streamlining content discovery, leading to 80% faster content discovery
- Collaborated with team members to ensure seamless integration of the new features, maintaining high standards of code quality and consistency
- Optimized user experience through efficient coding practices and database management, improving site response time by 1.5 seconds

PROJECT

Personal Portfolio Website

July 2024 - present

- Designed and developed a responsive personal portfolio website using HTML5, CSS3, and JS, featuring interactive UI animations, and cross-platform compatibility for different devices

House Energy Estimation System

YYC Hackathon, November 2023

- Used Python to develop an energy estimation system, allowing user to input appliance usage and calculate consumption, helping raise awareness of costs and environmental impact

Flight Management System

ENSF 337, September 2023 - April 2024

- Used C++ to build a Flight Management System with seat mapping and passenger data management, enabling easy flight info manipulation and ensuring data persistence

Pong

ENGG 200, September 2022 - April 2023

- Used Arduino along with C++ to create a Pong game, integrating hardware and software for controls and display, gaining experience in embedded systems development

OTHER

- Finalist in the American Computer Science League 2020 - 2021
- Bronze medal in the British Physics Olympiad (BPhO) 2019 - 2020
- Library volunteer in Guangzhou, China 2019 - 2020
- Teacher's assistant in Bali, Indonesia August - September 2019