William Chen

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Education

UNIVERSITY OF BRITISH COLUMBIA   Vancouver, BC
B.Sc. Honours Computer Science, Software Engineering Option. GPA: 3.95   Grad: Aug 2023
Thesis: Cognitive Reappraisal Facilitated by Tactile Interaction with Zoomorphic Social Robot
Relevant Coursework: Algorithms and Data Structures, Computer Systems, Software Construction

Experience

VALUE-BASED ANALYTICS TEAM, EPIC SYSTEMS   Madison, WI, USA
Software Developer   Oct 2023 – Present
- Improved data exchange integration with third-party systems to enrich claims, patient, and contract-level data using **C#**, **Azure**, **Caché** and **SQL** processes during a **400%** customer growth period
- Played a key role in a specialized team responsible for designing and leading the migration of services to **Azure**-based cloud systems, establishing observational UI in **React** & **Grafana** and logging tools in **.NET**
- Optimized **SQL** query plans for large-scale data transfers across databases, improving performance and reducing execution time by up to **90%**

SPIN LAB, UNIVERSITY OF BRITISH COLUMBIA   Vancouver, BC
Undergraduate Research Assistant   May 2023 – Aug 2023
- Engineered a research study dashboard using **PsychoPy** and **Python**, designed to be adaptable to various tasks and projects. Demonstrated the tool to lab mates, facilitating its adoption by current and future team members.
- Conducted an evaluation of diverse potential human-robot interaction scenarios, focusing on emotion regulation across predetermined dimensions, using crowdsourced surveys and one-on-one interviews to gather valuable insights and support informed decision-making.
- Analyzed the SparkFun 9DoF IMU Breakout to enhance the zoomorphic prototype design, using **Arduino** and **C++**.

UNIVERSITY OF BRITISH COLUMBIA   Vancouver, BC
Computer Science Undergraduate Teaching Assistant   Jan 2021 – May 2022
- Achieved outstanding **100%** positive feedback in latest teaching assistant student evaluations, reflecting exceptional performance in supporting student learning and academic success.
- Provided comprehensive academic support to hundreds of students across four semesters, delivering effective assistance in lectures, instructional labs, and assignment sessions for **C** and **Java** programming courses.
- Spearheaded the implementation and management of innovative student-to-staff and student-to-student communication tools, fostering a collaborative learning environment that maximized student engagement.

Projects

TODOS   Vancouver, BC
[**GitHub**](#)   June 2023
- To-do list full stack application exploring development with a **React JS** frontend, **GraphQL** API, **NestJS** backend, and **Prisma**/**PostgreSQL** database.

AE RESUME GENERATOR   Vancouver, BC
[**Backend GitHub**](#) | [**Frontend GitHub**](#)   May 2022
- Full stack web-based resume organizer and generator for easy creation and modification of project proposals from employee resume database using **React**, **.NET**, **Azure Cloud Services** and **C#**.

VR DRONE INTERACTION SIMULATOR   Vancouver, BC
[**DOI**](#) | [**GitHub**](#)   August 2019
- VR simulation using **Unity** and **C#** of collocated human-drone interaction of 3 drone forms in varying environments.
- Paper published in "IEEE Robotics and Automation Letters"

Skills

Technical: SQL, C#, C, React, Azure, Typescript, Java, Python, C++, .NET, Unity, VR/AR Development
General: English, French, Chinese, Leadership, Verbal Communication, Attention to Detail, UI Design, Research