

# Alvin Sen Yuan Wu

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## Education

Edmonton, Alberta

University of Alberta

Sept 2020 - June 2025

- BSc Major in Computing Science Minor in Mathematics
- Relevant Coursework: Algorithms & Data Structures, Database & File Management, Linear Algebra, Calculus, Statistics, Machine Learning, Software Engineering with Object Oriented Design, Software Quality, Web Application and Architecture, UI/UX Design.

## Skills

**Languages:** Python, C/C++, Java, Matlab, HTML/CSS, XML, PHP, Typescript, Javascript.

**Databases:** MongoDB (familiar), Firebase/Firestore, MySQL (familiar)

**Frameworks / Others:** React.js, WordPress, Pytorch, Numpy, Pandas, Tensorflow, RDKit, Android Studio, Git.

## Relevant Employment / Experience

### Machine Learning and Web Developer Research Assistant

University of Alberta Derda Research Group | April 2021 - Current

- Undergraduate Research Assistant in GlyNet: A Multi-Task Neural Network for Predicting Protein-Glycan Interactions. PI: Ratmir Derda, Supervisor: Eric J Carpenter.
- Web-App Development for Chemical Compound Search and Sort Project

### Contract Web Developer

Derda Research Group | March 2021

- Creation and maintenance of the Website for the Derda Research Group.
- Technologies Used: WordPress, PHP, Javascript, HTML/CSS.
- [Website link](#)

## Projects - More on Github

### Panda Pomodoro Discord Bot

- Pomodoro Discord Bot using Python and discord.py module. Usable within Discord.

### ED UNIX-like operating system command Editor

- Line-oriented editor for text files with Python. Implementations of Object-Oriented Design using Doubly linked lists (project grade: 103%).

### QRHunter: Java Android App

- Lightweight android mobile application, where users from across the world compete in a Geo-catching like format. Scanning QR codes is associated with obtaining points, and players can see where they rank amongst other players.
- Demonstrations of Object-Oriented Design, Software Development Processes, Agile/Scrum, etc.

### React Weather Web App

- WeatherReact with API calling. Simple display of React knowledge such as useState, API calls, JSX, CSS.