

Polly Liu

✉ polly.liu@uwaterloo.ca |  linkedin.com/in/pollyliu1 |  github.com/pollyliu1 |  pollyliu1.github.io

Skills

Languages: Python, Java, C, React, JavaScript, HTML/CSS, Racket

Technologies: React, Git, MySQL, PostgreSQL, Django, Adobe CC

Methodologies: Object-Oriented Programming, Agile/Scrum Development, REST

Projects

UWStream — React, HTML/CSS, PostgreSQL, Django 


Dec 2022 - Jan 2023

- Developed **web application** that displays analyses and insights on user gameplay from their League of Legends matches using the Riot Games **API**
- Implemented **RESTful API** format to manage and database player information with **Django** and **PostgreSQL**, and optimized software to minimize server requests to the Riot Games API
- Used Python ML library to fit data from users' games to a logistic model
- Designed and developed frontend website using **React** to be both mobile and desktop friendly

Personal Website — React, JavaScript, HTML/CSS, Adobe CC 

Nov 2020

- Developed an **integrative** and **intuitive** way for online university students and study groups to track due dates and deadlines through a Discord bot using **Python**
- Accepts commands to perform CRUD operations - parses event name, description, and date, saves it in a **mySQL** database, and returns **human readable**, formatted information on demand

Cipher.exe — Python 

Sep 2018 - Mar 2019

- Created email server/client allowing users to send, receive, and sort emails; perform CRUD operations
- Applied programming principles including hierarchies, **encapsulation**, **modularism**, **object-oriented** programming, and utilized **linked lists** and **trees** to efficiently manage a large quantity of emails
- Gained significant experience in backend development, data management, and servers

Work Experience

Toronto Youth Network — Operations Director

Sep 2021 - June 2022

- Categorized, sorted, scanned, and shredded legal files
- Parallelized sorting and scanning system to improve efficiency of file processing by **25%**

Jack of Sports — Head Coach

Sep 2021 - Oct 2021

- Provided second opinions to contractor in design and construction of both residential and commercial projects to optimize working efficiency and reduce labour costs and hours by **20%**
- Applied various construction techniques such as drywalling, setting concrete, setting up HVAC, while using a wide variety of power tools including table saws, drills, oscillators, nail guns

Toronto Kidz Camp — Camp Counselor

Aug 2021

- Categorized, sorted, scanned, and shredded legal files
- Parallelized sorting and scanning system to improve efficiency of file processing by **25%**

Education

University of Waterloo — BCS Candidate, Computer Science

Sep 2022 - Apr 2027

- Specializing in Human-Computer Interaction

Interests

Writing, Songwriting and Electric Guitar/Bass (Rock Band!), Video Games, Chess, Philosophy