

Tyler Chen

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EXPERIENCE

Web Development Intern

July 2021 – September 2023

PixelPAD.io

Vancouver, BC

- Worked as a full stack web developer for a local educational platform
- Used Wordpress, SkulptJS to create a custom game engine that could be programmed using Python
- Implemented framework to allow development of multiplayer games using Socket.IO and NodeJS
- Deployed local environments onto AWS and DigitalOcean instances with Apache and PHP

Coding Instructor

Mar. 2018 – Aug. 2023

Under The Gui Academy Inc.

Vancouver, BC

- Taught elementary programming and robotics concepts to children at the elementary school level
- Designed curriculum and created games to gameify learning for a younger audience
- Dissected complex topics in order to express the purpose of code to a younger audience

PROJECTS

Cansat | *Python, C++, Arduino, Fusion 360*

November 2022 – March 2023

- Participated in national hardware design competition for high schools across Canada
- Used an Arduino to collect telemetry data and relay it over LoRa radio
- Interfaced with several communication protocols such as I2C, SPI
- Used Fusion360 and TinkerCAD to design and print 3d chassis and create working PCB
- Winner of Best Science Mission award

Nautical Twilight | *Python, PixelPAD*

March 2020

- Led team of 4 to design and program a game within 2 weeks for PixelPAD's 2020 March break game jam
- Won award for best game overall, reaching 15K+ online plays
- Created custom sprite work and drafted designs for levels and game mechanics

Shower Scribe | *Python, Flask, Raspberry Pi, Cohere API, Bootstrap*

October 2023 – December 2023

- Created an IOT device that can record and transcribe voice clips from the shower
- Helped build locally served web app that allows users to replay recordings, view transcriptions, and use LLM services such as semantic search/AI generated resumes
- Used Python's multiprocessing module to integrate all the services and host the Flask server on the Pi

EDUCATION

University of Waterloo | *Cumulative GPA: 3.99*

Sep. 2023 – Apr. 2028

- Bachelor of Software Engineering

TECHNICAL SKILLS

Languages: Python, C/C++, C#, JavaScript, HTML/CSS

Frameworks: Node.js, Flask, WordPress, Django

Developer Tools: Git, Github, Google Cloud, Asana, Vim, Linux, Make, AWS

Libraries: Arduino, Raspberry Pi, PIL, SDL2, OpenCV, Numpy, TKinter, Box2D

AWARDS

Cansat 2023 Junior Science Challenge: Best Science Mission

Euclid Math Competition 2023: School Champion, 97% percentile

Codeforces: 80% percentile, Max rating 1678

PixelPAD Game Jam 2020: Best Game Overall