

Peter Zhou Full Stack Developer

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Work Experience

Backend Developer @ Canadian Stem & AI Academy

September 2021

JavaScript, Node.js, Express, Cloudflare, Amazon Web Services, MySQL, RESTful

- Developed an efficient and robust RESTful API system to manage students and classes for the non-profit organization
- Currently deploying the system on self-hosted servers for initial testing
- Collaborated and communicated with a team of backend and frontend developers to ensure seamless interoperability between the API system and the frontend app
- Interfaced with the client on a weekly basis to discuss design and progress

Online AP Level CS Teacher @ Canadian Stem & AI Academy

June 2022

Java, Python

- Created Java and Python curriculums that teaches to an AP level, including lessons and exercises
- Directed 200+ instructional videos, which are currently being used to teach hundreds of students

Teaching Assistant @ Maple STEM Education Inc.

March 2020

- Created over 50 presentations to assist in teaching Advanced Functions at a grade 11 level

Personal Projects

Rapid Trigger Keypad C/C++, Circuit Design, Firmware

May 2023

Co Founded a small business to design and sell a game controller. Designed a keypad with Electromagnetic Hall Effect technology and developed firmware in C/C++ for the embedded controller

Freelance 3D Printing Business CAD design, CANBus, Firmware

September 2023

Built and maintained multiple 3d printers. Set up CANBus connections and firmware for 3d printers, hosted on Raspberry Pis and other embedded controllers. Designed 3d CAD models for clients when needed

VEX Robotics Team Captain C++

August 2021

Led a team of 5 to design and build a robot for the VEX game, placing second at Provincials and making it to VEX Worlds in Dallas, Texas. Programmed a driving system, using concepts like PID and odometry

OsuGame Discord Bot Python, SQL

August 2020

Developed and maintained a discord bot that allows hundreds of users to analyze their stats for the rhythm game OSU by utilizing the game's API.

Education

University of Toronto

September 2023 - May 2027

Pursuing BSc in Computer Science and Statistics

Skills

Programming Languages

Node.js, Javascript, Python, C++, TypeScript, HTML, CSS, Java, SQL

Libraries and Frameworks

React, Tailwind, jQuery, Node.js, Express, Flask

Tools and Platforms

Git, Amazon Web Services (EC2, RDS, EBS), Cloudflare, RESTful

Hobbies

Homelab, 3D printing, Biking, Mechanical Keyboards, Cooking