

RANDY ZHU

604-704-9500 | randy@randyzhu.com | [linkedin.com/in/rzhu08](https://www.linkedin.com/in/rzhu08) | github.com/RandoNandoz

EDUCATION

University of British Columbia

BSc, Computer Science, Minor in Mathematics, Co-operative Education Program

GPA: 88%

September 2023 – May 2028

TECHNICAL SKILLS

Languages: Java, C#, Python, C, C++, JavaScript, TypeScript

Developer Tools: Git, Docker, Azure, CloudFlare, Linux, Interactive Disassembler, Cisco Wireless, Hyper-V, VMware ESXi, gdb, lldb, Valgrind Memcheck, Excel

Libraries: Sympy, Numpy, Pandas, Matplotlib, MongoDB, jQuery, Catch, Flask, Swing/Java AWT, NUnit, JUnit, Unity, Boost Graph Library, Power Apps Component Framework

WORK EXPERIENCE

Power Platform Developer Co-op

September 2024 – April 2025

Teck Resources Limited

Vancouver, BC

- Developed React photo viewer plugin with Typescript and Power Apps Component Framework
- Performed automated testing of Power Apps UIs using Dataverse API and Puppeteer in C#
- Transitioned legacy Excel spreadsheets to Power App solutions using Pandas and Python, converting data and accelerating ETL pipelines for business analysis teams.
- Architected efficient relational database schemas in Microsoft Dataverse.
- Developed manual test plans in Excel, catching 85% of bugs before deployment.
- Wrote clean, event-driven functional Power FX code for UI and database interaction.

Undergraduate Teaching Assistant

July 2024 – Present

The University of British Columbia

Vancouver, BC

- Taught students about OOP concepts and software engineering best-practices.
- Debugged and optimized students' event-driven Java Swing code in office hours and labs.
- Achieved an average rating of 4.9/5 rating for student engagement, preparation, and fostering a positive learning environment.

VOLUNTEER

Automation Developer

September 2023 – Present

UBC Agroponics

Vancouver, BC

- Orchestrated the deployment of farming automation web applications using Docker, accelerating the development lifecycle and improved scalability.
- Visualized and stored sensor data transmitted using MQTT into Postgres, ensuring efficient data storage.
- Delivering 90% cost savings by transitioning team from paid, proprietary software to free/open-source solutions.
- Debugged Arduino C programs for interfacing with sensors, and taught fellow team members how executables are laid out in memory.

PROJECTS

profsearch.randyzhu.com | Flask, Python, HTML, jQuery, Docker

May 2024

- Facilitates searching of previous courses that a UBC professor have taught.
- Developed REST API for fuzzy searching professors using Flask. Using API, displayed course data by professor selection on simple website.
- Parsed & cleaned professor data using Pandas; tested & developed object-oriented model of courses.

Collidy Road | Unity, C#, .NET

July 2023

- Lead developer for a top 10% of submissions game jam project, a role-reversal of Crossy Road
- Optimized particle FX and entity behaviour to support massive enemy count.
- Collaborated with several artists and developers over multiple days to avoid work overlap and streamline work.