Emily Chen

Software Engineer

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SKILLS

- ***Programming:*** Java, Git, HTML, CSS, JavaScript, XAML, C#, Bash, C/C++, Python, R, Arduino, MATLAB, Azure
- ***Currently Learning***: Typescript, NodeJS, React (self-learning)
- ***Other***: Agile / scrum, JIRA, Microsoft Office Suite, LaTex, communication, cross-functional collaboration, leadership

WORK EXPERIENCE

Software Engineer Intern, Microsoft

Microsoft | May 2021 - Aug 2021

- Defined and implemented a custom scalable UWP Application and a proprietary algorithm using XAML and C#, integrating the Azure Maps API and Microsoft's Connected Vehicle Platform.
- Owned a significant portion of the client code, defined the structure and architecture using the MVVM (model, view, view-model) design pattern, and integrated back-end APIs with front-end components.
- Delivered efficient, well-structured, testable, and documented technical deliverables; performed daily code reviews to provide feedback to teammates and ensure the quality of submitted code while completing 40+ pull requests.
- 1 of 50 North American Garage interns selected from over 10,000 applicants.

UBC Computer Science Teaching Assistant (TA)

University of British Columbia | Sep 2020 - Present

- Current undergraduate TA for *CPSC 210: Software Construction*, former TA for *CPSC 110: Systematic Programming*.
- Led 75+ weekly labs, office hours, code reviews, and problem set grading sessions for 200+ students, receiving perfect student evaluations of teaching (i.e. 100% favourable rating).
- Helped students clearly define project structures and relayed student needs to professor over 3 academic terms.
- Coordinated virtual and in-person programming sessions to groups of 10-12 students at a time: developed skills in effectively describing the thought process behind code without explicitly giving the answer.

Undergraduate Research Assistant

University of British Columbia | May 2020 - Aug 2020

- Worked closely with professor Stefan Reinsberg and a PhD student (SAR Lab), Biomedical Imaging & AI Lab cluster.
- Created a python application for data visualization that layers histology scans and images by tiling, colouring, and overlaying the images; hosted using Flask.
- Developed an arduino program to control and monitor helium levels in the lab's Cryorefrigerator used to keep the 7T Bruker Magnet running.

C.O.D.E. Initiative Volunteer Instructor

University of British Columbia | July 2020 - Present

- Led 25+ sessions teaching Scratch & web development (html/css/js) to neurodiverse kids ages 10-18 on the autism spectrum.

EDUCATION

Bachelor of Science + Master of Management

University of British Columbia: Sep 2019 - Dec 2023

- ***Honours Computer Science, software engineering option (BSc)***
- Dean's List 2019-2020, 2020-2021
- Relevant courses:
  - CPSC 110 (Systematic Programming), 121 (Models of Computation), 210 (Software Construction), 213 (Computer Systems), 221 (Data Structures & Algorithms)
  - CPSC 310 (Software Engineering), 311 (Definition of Programming Languages), 320 (Algorithm Design & Analysis)
- Extracurriculars:
  - AIESEC UBC VP Finance Nov 2020 - Oct 2021, VP Incoming Global Talent 2019-2020
  - Science Undergraduate Society Elections Chair 2020-2021,
  - Hot Potato Initiative Foundation Ambassador 2020-2021

AWARDS

- **Queen's Chancellor Scholarship Recipient** '19
- **Social Interconnectivity Grand Prize** @ Stanford's TreeHacks '21 (722 participants)
- **Microsoft Azure Challenge Winner** @ Stanford's TreeHacks '21
- **Second Place Winner** @ TOHacks '21 (744 participants)
- **Best use of Open AI** @ TOHacks '21
- **IBM Most Innovative Project** @ UWaterloo's HackTheNorth '21
- **View all hackathon projects here:**
  - devpost.com/emilylynnchen

www.linkedin.com/in/emilyychenn/ github.com/emilyychenn