Emily Chen

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SKILLS

- **Programming**: Java, Python, HTML, CSS, JavaScript, C++, MATLAB, Arduino, Racket, Git
- **Currently Learning**: R (STAT 200), C (CPSC 213), React (self-learning)
- **Communication**: English (fluent), French (proficient: DELF B2 certified), Mandarin (conversational)
- **Other**: Communication, organization, efficiency/time management

EXPERIENCE

Incoming Software Engineer Intern
Microsoft | May 2021 - Aug 2021

Undergraduate Research Assistant
University of British Columbia | May 2020 - Aug 2020
- Working closely with professor Stefan Reinsberg and PhD student Firas Moosvi (SAR Lab), Biomedical Imaging & AI Lab cluster
- Created a python application for data visualization to layer histology images by creating tiles from the images, changing their colour, then overlaying them: this uses python for image processing (created user interface through Docopt, a command line interface) and is hosted using Flask
  - loads data from a config.yaml file that can be overwritten by the user through docopt
- Developed an arduino program to control the PT410 Cryorefrigeratror used to keep the 7T Bruker Magnet running

UBC Computer Science Teaching Assistant (TA)
University of British Columbia | Sep 2020 - Present
- Undergraduate TA for CPSC 110: Computation, Programs, and Programming, using Racket (teaching systematic programming)
- Led labs, problem set grading, and relayed student needs to professor.
- Navigated the new challenges of teaching programming virtually to groups of 10-12 students at a time: developed skills in effectively describing the thought process behind code without explicitly giving the answer (students not allowed to share screen to encourage academic honesty)

C.O.D.E. Initiative Volunteer Instructor
University of British Columbia | July 2020 - Present
- Teaching Scratch & web development (html/css/js) to neurodiverse kids ages 10-18 on the autism spectrum

UBC CMD-F Hackathon
University of British Columbia | Mar 2020
- Winner of Kabam's Best UI/UX Design Award, Winner of Hootsuite's #SocialForGood award, Winner of Telus's "Leveraging technology to manage/improve any mental health related issue"
- Used HTML/CSS/Javascript and a firebase authentication API to develop an application geared towards the caretakers of kids with special needs

EDUCATION

Bachelor of Science + Master of Management
University of British Columbia - 2023
- Honours Cellular, Anatomical & Physiological Sciences specialization, minor in Computer Science
- Relevant Courses:
  - CPSC 110 (Racket; systematic programming),
  - CPSC 121 (logic, models of computation),
  - CPSC 210 (Java: software construction),
  - CPSC 221 (C++: algorithms & data structures),
  - CPSC 213 (Software architecture, operating systems, and I/O architectures - in progress)

AWARDS

- UBC Dean's List '20
- Queen's Chancellor Scholarship Recipient '19
- Social Interconnectivity Grand Prize @ Stanford's TreeHacks '21
- Microsoft Azure Challenge Winner @ Stanford's TreeHacks '21
- IBM Most Innovative Project @ UWaterloo's HackTheNorth '21
- UBC BizHacks '20 participant
- Girls in Tech Virtual Hackathon '20 participant

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