Mandy Chen

Year 2, Computer Science Major

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Technical Skills

Programming Languages	Java, C/C++, Racket, Python, JavaScript/TypeScript*, HTML/CSS, PHP*, SQL*
Tools	Git, Terminal, Xcode, WebStorm, Valgrind *learning*

Extra Curricular Projects

Personal Website (HTML/CSS)   Jan 2017
- Picked up HTML and CSS basics quickly, set up and customized a portfolio site in 5 hours and hosted on GitHub Pages

WeDJ at nwHacks 2016 (JavaScript)   Jan 2016
- Designed and implemented a web application that allows people to vote for their favourite songs in gatherings, updates votes in real time, and automatically plays the popular one
- Worked in a team of 4 on the back end using KnockoutJS for data-binding and JavaScript for web app setting-up

Work Experience

Undergraduate Teaching Assistant (*UBC Dept. of Computer Science*)   May 2016 - Present
- Teaching CPSC110 (*Computation, Programs, and Programming*) for three terms
- Guided 100+ students to solve programming problems by helping them gain a deeper understanding of functional programming and systematic programming design
- Meeting with peer TAs and instructors on a weekly basis to provide feedbacks, issues and possible solutions

GIRLsmarts4tech Coordinator (*UBC Dept. of Computer Science*)   Apr 2016 - Present
- Taught 140+ Grade 6 and 7 girls about HTML/CSS basics, HCI, programming using Microsoft Touch Develop, 3D printing, and hardware through organizing workshops and giving presentations
- Communicating weekly with faculty staff members and peer coordinators

Academic Projects

InsightUBC – Web Application (*JavaScript/TypeScript*)   Jan 2017 - Present
- Implemented data models that parse UBC courses data from compressed JSON files, and answered web server queries along with an web app interface in a team of 2
- Utilized APIs for asynchronous data parsing and processing
- Designed and executed unit tests using Mocha framework in WebStorm
- Collaborated with teammate through version control system and issue tracker on GitHub

Mind The Gap **- Mobile Android Application** *(Java)*   Jan – Mar 2016

- Completed the implementations of an Android app that parses JSON data using London's Underground RESTful API and displays real time London Underground arrival and departure information
- Tested implementations using JUnit framework in IntelliJ, Android app interface and functionalities in emulator Genymotion

Volunteer Experience

Girls Learning Code – Intro to Python for Teen Girls   May 2016

- Mentored girls aged from 12-17 to learn Python basics in 6 hours

Experience Science Day   May 2016

- Guided 100+ students from Grade 4 to 7 to learn Scratch-type programming

Canadian Open Math Challenge Day   Nov 2015

- Assisted over 20 high school students to solve math problems in Python

Education

University of British Columbia (UBC)   Sep 2015 - Present

- Bachelor of Science, Computer Science Major (CPSC, MATH, and STAT average 94.3%)
- Expected graduation in May 2020

Scholarships & Awards

- **Trek Excellence Scholarship for Continuing Students** – Top 5% of the Science Faculty for 2015/2016 Winter Session at UBC
- **Science Scholar** – achieved standing of 90% or better in 2015/2016 Winter Session at UBC