

# Mandy Chen

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## Technical Skills

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Java, JavaScript (Node.js, ReactJS), TypeScript, SQL, C/C++, Racket, HTML/CSS, Bash.

## Education

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**University of British Columbia (UBC)** Sep 2015 – May 2018 (Expected)  
*Vancouver, BC, Canada*

- Bachelor of Science, Computer Science Major, CGPA 3.86/4.0, Major GPA 4.0/4.0.
- Received Trek Excellence Scholarship for Continuing Students (Top 5% of the Science Faculty) in 2016.

## Work Experience

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**Undergraduate Teaching Assistant (UBC Dept. of Computer Science)** May 2016 – Apr 2017

- Taught CPSC110 (*Computation, Programs, and Programming*) for three consecutive terms.
- Guided 100+ students to solve programming problems by helping them gain a deeper understanding of functional programming in Racket and systematic programming design.

**GIRLsmarts4tech Coordinator (UBC Dept. of Computer Science)** Apr 2016 – Apr 2017

- Taught 140+ Grade 6 and 7 girls about HTML/CSS basics, HCI, programming using Microsoft Touch Develop, 3D printing, and hardware through organizing workshops.

## Projects

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**InsightUBC – Web App (TypeScript, Node.js, ReactJS, HTML/CSS)** Jan 2017 – Apr 2017

- Deployed a web app that allows users to query information about UBC course offerings and classrooms, display results, and schedule courses into available rooms in a team of two.
- Built data models that parse and process data asynchronously from compressed JSON and HTML files, and cache data in local JSON files for fast and stable client-side access in TypeScript.
- Completed RESTful endpoints adaption with Restify APIs, and used ReactJS and endpoints to set up and finish a course information exploration page.

**AirBC – Web App (PHP, SQL, Twig, HTML/CSS, jQuery)** Jan 2017 – Apr 2017

- Built an airline system that allows public to view information, customers to log in and book tickets, and staff to manage the database and view summary data reports in a team of four.
- Implemented Aircraft, Route, and Flight pages using queries in SQL from database and displayed results using Twig, HTML, CSS, and jQuery.
- Created a page using aggregate queries to display route and flight information for staff.

**Mind The Gap - Android App (Java)** Jan 2016 – Apr 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.