



DESMOND LEUNG

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YEAR 3, COMBINED MAJOR IN COMPUTER SCIENCE AND BIOLOGY | [HTTPS://GITHUB.COM/DLEUNGTM](https://github.com/DLEUNGTM)

TECHNICAL SKILLS

- **Programming/Languages:** Java, C++, C, Swift*, Javascript*, Typescript*, HTML*, CSS*
 - **Tools:** Xcode, IntelliJ, Sublime Text, Express*, MongoDB*, Node.js*
 - **Testing:** JUnit
- *Currently Learning

TECHNICAL PROJECTS

Calculator Application for iOS (Personal)

Apr 2016 – Present

- Familiarizing with iOS frameworks, Swift 2, and the Xcode environment using the tutorial from Apple's Developer Library and created a simple application for both iPhone and iPad

Comic Book Web Application (Academic)

Jan – Apr 2016

- Created from scratch a web application that allows for creating and viewing comic strips (A+)
- Utilized the Express web framework with Node.js to build the web application and used Mongoose with MongoLab for the server side database
- Designed and implemented both the client and server side code using Typescript to maintain an object-oriented code structure in Javascript
- Integrated third-party code like Passport.js, Facebook SDK for Javascript, FancyBox, and PayPal Payments Standard into our project for additional functionality and visual appeal
- Used GitHub to collaborate with three other team members and keep our workflows in sync

Puzzle Solver (Academic)

Sep – Dec 2015

- Designed and implemented a program to solve puzzles such as Sudoku, the Wolf-Goat-Cabbage problem, and multiple slider puzzles of varying sizes
- Created abstract data types including Queue{LinkedList, HeapPriority, CircularArray}, and fixed-size and dynamically resizing hash tables (with chaining) based dictionaries
- Compared the asymptotic runtime/speed of the various ADTs using print statements and automated calculations in order to determine the quickest way to solve each puzzle

Mind the Gap (Academic)

May – Jul 2015

- Android application that used Transport for London (TfL) Open Data and OSMDroid to plot the London Underground tube lines onto a map
- Functionality included showing users the locations of stops and real-time arrivals information
- Configured IntelliJ to use the Android SDK, Genymotion Android Emulator, and VirtualBox to run the application in an Android Virtual Device
- Implemented a JSON parser to parse arrivals data from the TfL Open Data service
- Designed JUnit tests to ensure that the parser and other components of the application have been implemented properly and demonstrated the specified behaviour (A+)



TECHNICAL EXTRACURRICULAR ACTIVITIES

nwHacks, Vancouver

Feb 2016

- Worked in a team of 5 for 48 hours to develop a simple web application for messaging and sending money to friends and family
- Built the app using the Express web framework and Node.js, along with MongoDB
- Began integrating the PayPal REST API for our payments backend

EMPLOYMENT HISTORY

Quick Service Attendant, Canucks Sports and Entertainment

Aug 2014 – Present;

Crew Member, McDonald's Restaurants of Canada

Jul 2011 – Dec 2014

- Worked in a fast-paced environment requiring multitasking and prioritization skills
- Provided exceptional customer service by having a wide knowledge of products and venue and utilizing strong interpersonal and communication skills
- Maintained great relationships with co-workers and managers and assisted in training new employees and helping them integrate into the team

VOLUNTEER HISTORY

Youth Leader, 21st Pacific Spirit Scout Group

Mar 2008 – Dec 2013

- Delegated tasks to assistant leaders to ensure efficient execution of our programs
- Assisted senior leaders with running the program and liaising with the youth members
- Planned and presented lectures on a variety of topics such as winter survival and conservation
- Trained new members in basic practical skills such as foot drilling and knotting
- Assisted in planning and executing lesson plans for administering the CYA White Sail program

SKILLS + STRENGTHS

- Fluent in English and Cantonese
- Over 4 years of experience engaging with customers in a friendly and professional manner
- Self-motivated and can be relied upon to meet deadlines and deliver on commitments
- Works well with others as well as working independently

EDUCATION

B.Sc. (Combined Major in Computer Science and Biology)

Expected Graduation Date: May 2019

- University of British Columbia

Awards + Scholarships

- BC Graduation Program Examinations Scholarship
- District/Authority Scholarship, Community Service
- Duke of Edinburgh Award, Silver Level
- Duke of Edinburgh Award, Bronze Level
- Queen's Scout Award