DESMOND LEUNG

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TECHNICAL SKILLS

- **Programming/Languages:** Java, C#*, HTML, CSS, C++, C, Javascript*, Swift*
- **Tools:** Xcode, Visual Studio, IntelliJ, AngularJS*, SQL*, MongoDB*, Node.js*
- **Testing:** JUnit, Selenium, SikuliX

*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

Junior Software Developer + QA Intern, Paragon Testing Enterprises   **Sep 2016 – Present**

- Worked closely with senior developers and the Test Research and Development Team to design and implement a new task management portal for the test raters
- Helped develop and test new features for the web applications responsible for test delivery, test taker and test content management, and test scores management
- Worked with the Marketing Team to update the front-end of our instructional products portal for a more consistent look and to improve the experience and usability for the end user
- Performed quality assurance duties to ensure our software programs executed properly and returned valid results, and wrote scripts to automate said duties to increase efficiency

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**

- 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

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, Bronze and Silver Levels
- Queen's Scout Award