Joshua Ching

Aspiring Systems Design Engineer

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Skills Summary

- Programmed side projects using Java, C++, HTML, CSS, JavaScript
- Working knowledge of jQuery, D3.js, Node.js, Socket.io
- Familiar with bash, git, and selenium IDE
- Experience with Android platform developed through personal and freelance projects
- Omnigraffle for generating wireframes, mockups, and stencils

Work Experience

Web Developer and Themer
Jan 2014 - Dec 2014

Ontario Institute for Cancer Research

- Developed email and static templates using HTML and CSS
- Documented, extended, and integrated client-side JavaScript APIs with web applications
- Supported 4 websites simultaneously with Drupal's Content Management System
- Constantly interacted with developers and designers when conducting thorough quality assurance tests for cross-browser compatibility, functionality, and security
- Conducted training and usability reviews with clients regarding software solutions

Android Developer
Sept 2014 - Sept 2015

Knowledge Makes Cents

- Analysed client's goals to define technical requirements and planned for possible designs
- Remotely communicated with a team of developers to construct a structured solution
- Coordinated with graphic designers by developing the application to match mockups

Design Experience

Android Proximity Sensor Music Player
Jan 2014 - April 2014

- Developed an application that incorporated device's proximity sensor allowing users to browse their songs without having to touch their phone
- Designed user interface to be consistent with current music players to ease usability
- Followed good coding conventions ensuring code to be clean and easy to read

Product Redesign Project
May 2014 - June 2014

- Analyzed, assessed, and outlined human factor issues for the e-book reader Kindle with a team of engineers
- Conceptualized and redesigned user interface based on user requirements, personas and human factors engineering guidelines to improve user experience and navigation
- Utilised techniques such as Hierarchal Task Analysis and Fault Tree Analysis to evaluate for poorly designed features

Education

Candidate for Bachelor of Applied Science
Sept 2013 - present

Honours Systems Design Engineering, University of Waterloo, Waterloo, ON

Notable Courses:
- Digital Computation (C++)
- Digital Systems (Arduino)
- Human Factors Engineering
- Systems Design Engineering