Christopher Ngan

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Summary

- Highly motivated and hard-working to achieve success (currently ranked first in class)

- Passionate in changing lives with the development of ideas and promotion of social awareness

- Quick at adapting to new skills and environments

- Cooperates and communicates well with others in a team setting as a member or as a leader

- Excellent problem solving skills nurtured through engineering and academic challenges

Technical Proficiency

- Knowledge of languages such as C#, C++, Java, SQL and Javascript

- Software development on platforms like Windows (.NET), Web and Android

- Experience using FPGA boards and microcontrollers (Verilog and Arduino)

- Understanding of digital systems in applications with audio signals

- Proficient with standard development tools (OSX and Windows OS) and practices (Agile Methodology)

Work Experience

Research Assistant, University of Waterloo   *Waterloo, ON*, Jan. 2013-Present

- Studying animations for use on walk-up displays to improve user experience
- Creating a Java library for animation rendering with Processing, an open-source language

Mobile Developer Intern, Genesys Lab   *Markham, ON*, Sep-Dec 2012

- Part of a Saas initiative in the creation of a call-routing adminstration web application
- Developed an understanding of agile development and web technologies such as RESTful services, NodeJS, Backbone and Twitter's Bootstrap

Software Developer, Cole Engineering Ltd.   *Markham, ON*, Jan-Apr 2012

- Lead designer and developer of an Android application that aided in the data collection of sewage systems and its abstraction to a database
- Created a Windows(.NET) application and database to manage the company's projects
- Aided in the development, documentation and debugging of a hydrology analysis software

Relevant Projects and Experiences

Manuscripter, Developer (click for link)   *Personal Project,* Feb 2013-Present

- Used technologies including a third-party API, Node.js and Backbone.js framework
- Created a web app for users to study Biblical text without annotated headings or numbers

In Giving We Receive, Co-Founder   *Personal Startup,* Dec 2012-Present

- Striving to change the attitude of Canadians by raising awareness of urban poverty
- Organized a clothing drive for a homeless shelter in Toronto

Homeless Shelter, Volunteer   *Ray of Hope,* **Sep 2011 - Present**

- Aid in setup, cleaning and general activities during drop-in hours
- Developed strong interpersonal skills through interaction with guests and other volunteers

Electric Piano, Team Member   *University of Waterloo,* **Jul 2012**

- Created a 12 key piano using a XA Spartan-3 FPGA board and electronic components
- Achieved an understanding of a simple `speaker system by providing the required **verilog** code and design of hardware

Portable Anti-Shake Table, Designer   *University of Waterloo,* **Sep-Dec 2011**

- Constructed a table to meet specific design requirements such as cost, portability and weight in order to create an earthquake proof table
- Completed **AutoCAD** drawings in *isometric, orthographic* and *exploded* view

30 Hour Famine, Project Co-ordinator   *Markham District High School,* **Mar-Apr 2011**

- Co-ordinated a team to promote and organize an event raising money for World Vision
- Team leader in organizing the closing dinner for over 50 people

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Education

Candidate for Bachelor of Engineering   *Waterloo, ON,* **Sep 2011-Present**
University of Waterloo

- Currently ranked first in the class with a cumulative average of 91.39%

ON Secondary School Diploma Markham   *Markham, ON*, **Sep 2007-Jun 2011**
District High School

- Graduated in the top 1% of the graduating class of over 300 students

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Awards and Distinctions

- **Dean's Honours List** *University of Waterloo,* Feb 2012 and Nov 2012
- **Faculty of Engineering Entrance Scholarship** *University of Waterloo,* Jun 2011
- **ON Secondary School Teachers Federation Trophy Scholarship** (3rd overall student) *Markham District High School,* Jun 2011

Interests

- **Music**: plays guitar, piano, drums, bass and spoons (yes, the utensil)
- **Food**: loves cooking (once wanted to be a chef)
- **Technology**: new trends, programming, video games, etc.