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Markham, ON, L6C 1W3

## JUSTIN CHANG

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### LANGUAGES AND TECHNOLOGIES

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- **Java; JavaScript; Spring; Git; Python; MATLAB; HTML; CSS; Node.js;** C; C#.NET; Verilog; MongoDB; PHP; Tomcat
- **IntelliJ Idea; Eclipse; Linux CLI & Bash; Android; Microsoft Office; Adobe Acrobat;** Visual Studio; IBM Lotus Forms

### EMPLOYMENT

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**Software Development Engineer Intern** **Amazon.com** **Summer 2015**

- Developed for the Kiva Picking Application, which instructs warehouse associates on what items to Pick and displays the status of the Kiva Robots
- Designed and implemented a problem handling framework for all deviation workflows, allowing associates to report Kiva Station problems and missing or damaged items
- Achieved internship stretch goals of designing heavy and hazardous material pack-out action workflows

**Co-Founder, Developer** **Trooper Designs - www.trooperdesigns.ca** **Summer 2014 – Present**

- Developed responsive website designs and software for clients ranging from businesses to real estate agents
- Communicated closely with designers to develop products and fulfill client contracts
- Worked with e-commerce platforms, custom content management systems, and various hosting services

**Software Developer** **JSL Software Solutions Inc.** **Summer 2014 – Spring 2015**

- Worked with a major bank to develop early prototypes and advance other aspects of their tool infrastructure
- Initiated the development of TN5250 and TN3270 emulator automation through web interfaces for accessing an AS/400 Mainframe environment running COBOL
- Developed internal Java Server applications using JavaBeans, PrimeFaces, Access, and MySQL on a Tomcat server
- Performed Forms Development using IBM Lotus Forms and scripting in Adobe Acrobat

**Site Administrator & Developer** **Fries With Benefits Franchise** **Fall 2013 – Winter 2014**

- Developed and maintained a professional website design using HTML, CSS, & JavaScript for an upcoming franchise

**Engineering Summer Student, R&D** **KingTiger Technology Inc.** **Summers 2012 & 2013**

- Interfaced Cypress PSoC microcontrollers to multiple analog and digital I/O devices including temperature sensors and Capacitive Touch buttons through I<sup>2</sup>C protocols
- Developed a Microsoft Windows Application using C#.NET and USB protocols for interfacing to the controller

**Guest Registration Service** **McMaster University** **Fall 2011 – Spring 2012**

- Ensured the safety of McMaster University's students by managing and verifying guests to student residences

**Lifeguard and Aquatics Instructor** **Town of Markham** **Winter 2010 – Spring 2011**

- Swim and Water Smart ® safety instructor and supervisor for all ages, demonstrating responsibility and vigilance

### EDUCATION

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**Hamilton, Ontario** **McMaster University** **Fall 2011 – April 2016 (Expected)**

- Software Engineering (Embedded Systems) Co-op

### TECHNICAL EXPERIENCE & PROJECTS

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- **STMicroelectronics Development** – Developed C programs to interface multiple I/O devices to microcontroller
- **Android Application: CabPool** – Full-stack development for Android platform including design of RESTful services
- **Web “Ninja”** – Helped develop McMaster's Software Engineering Club website
- **Arduino** – Interfaced various I/O modules including distance sensors, communication modules, and servo motors
- **Altera DE2 Board Development** – Designed and implemented finite state machine for term-project using Verilog
- **Leap Motion** – wrote simple applications to map out multiple hands and fingers in 3-dimensional space
- **Node.js** – Developed a RESTful API using node.js as an application server for multi-platform applications

### ADDITIONAL EXPERIENCE AND AWARDS

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- **McMaster App Development Club (Fall 2013 – Fall 2014)** – VP Operations & VP Finance