Kieran Colford

3A Computer Science, Honours, Co-operative Program, University of Waterloo, ID Number: 20580433

▬ Summary of Qualifications

- Excellent problem-solving skills demonstrated by education and self-initiated open source projects
- Commended by supervisors on a consistent basis for being a hard worker
- Gained extensive skills through personal experience in a number of programming languages and technologies.
  - **Programming Languages** C/C++, Java, Python, Javascript/NodeJS, x86 Assembly (AT&T syntax), Perl, Haskell, Bourne Shell, SQL and Racket
  - **Technologies** TCP/IP, SSL/TLS, Three.js, Apache Web Server, Nginx, CGI, MySQL, PostgreSQL, CouchDB, Docker, Containers, WebGL (OpenGL ES), HTML5, JSON, XML, AngularJS, JQuery, Ajax, and CSS3
  - **Documentation** Doxygen, Markdown, ReStructuredText and LaTeX
  - **Libraries** OpenMP, Qt, Gtk+, OpenGL, SQLite and Boost
  - **Build Systems** Grunt, Gulp, Makefiles, CMake, and GNU Autotools
  - **Development Tools** GIT, GDB, Jenkins, Unix Command Line, Linux and Emacs
- CPR C qualification with AED training
- Canadian Citizenship

▬ Work Experience

May.–Aug. 2016   **Fullstack Software Developer**, *BlueRover*, Kitchener, Ontario.
- Engineered a trend analytics engine that identifies potential hazards in food preparation thanks to data provided by the I.O.T. (Internet of Things) infrastructure.
- Independantly developed a multitude solutions for our existing product base in an agile environment.

Sept.–Dec. 2015   **Software Developer**, *Ontario Teacher's Pension Plan*, Toronto, Ontario.
- Received an outstanding work term evaluation from my employer.
- Reverse engineered the database for a third party product, and then developed an app for non-developers to view relevant content of the database.
- Designed and produced a backwards compatible service for sending email from enterprise applications.

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Education

2014–present	**Candidate for Bachelor of Mathematics**, *University of Waterloo*, Waterloo, Ontario.
2014	**Ontario Secondary School Diploma**, *The Abelard School*.

Awards

2014	**Evgeny Kravchenko Memorial Scholarship**, *University of Waterloo*.
2014	**University of Waterloo President's Scholarship**, *University of Waterloo*.
2014	**AP Scholar with Distinction**, *The College Board*.
	Awarded for receiving an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams.
2014	**The Alan Turing Award for Excellence in Computer Science**, *The Abelard School*.
2014	**Ontario Scholar Certificate**, *The Abelard School*.

Projects

2016	**Personal Enterprise Infrastructure**.
	Networked together all personal computing platforms, from Chromebook to cloud virtual machines and containers to desktop, in an enterprise grade infrastructure based on Arch Linux.
2016	**Port of GCC to Course Specific Architecture**.
	Ported the GCC to a varient of MIPS specific to the CS 241 course in which students write their own compiler. *(could not publish)*
2015	**UWaterloo AddCourse**.
	A Python App that eases the task of getting into courses after the course selection date.
2014	**Boilerplate Generator**.
	Developed an easy to use boilerplate generator that analyzes comments in source code and generates code based on those comments.
2014	**Mongoose**.
	A fully fledged compiler for a Turing Complete subset of the C language.

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