

# Kieran Colford

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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 L<sup>A</sup>T<sub>E</sub>X

**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. **Fullstack Software Developer**, *BlueRover*, Kitchener, Ontario.

- 2016
- 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. **Software Developer**, *Ontario Teacher's Pension Plan*, Toronto, 2015 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 variant 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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