Kieran Colford

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

Summary of Qualifications

- o Excellent problem-solving skills demonstrated by education and self-initiated open source projects
- o Commended by supervisors on a consistent basis for being a highly reliable and independent hard worker
- o Gained extensive skills through personal experience in a number of programming languages and technologies.

Programming Languages C/C++, Go, Java, Python, Javascript/NodeJS, x86 Assembly (AT&T syntax), Perl, Haskell, Bourne Shell, SQL and Racket

Technologies Ethereum, TCP/IP, IPv6, UDP, SCTP, SSL/TLS, Three.js, Apache Web Server, Nginx, CGI, MySQL, PostgreSQL, CouchDB, Bind 9, Busybox, Kerberos, OpenLDAP, Samba, Wire Guard, OpenVPN, X.509, Let's Encrypt, GnuPG, IPFS, Libvirt, Docker, Containers, WebGL (OpenGL ES), HTML5, JSON, XML, AngularJS, JQuery, Ajax, and CSS3

Documentation Org Mode, 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, Arch Linux and Emacs

o Canadian Citizenship

Work Experience

May.-Aug. Fullstack Software Developer, BlueRover, Kitchener, Ontario.

Jan.–Apr.

2016 and o 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.

2017 o Maintained and expanded major product offerings using innovative tools and techniques.

o Independently developed a multitude solutions for our existing product base in an agile environment.

Sept.-Dec. Software Developer, Ontario Teacher's Pension Plan, Toronto, Ontario.

- 2015 Received an outstanding work term evaluation from my employer.
 - o Reverse engineered the database for a third party product, and then developed an app for non-developers to view relevant content of the database.
 - o Designed and produced a backwards compatible service for sending email from enterprise applications.

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? kcolford

StackOverflow: randomusername (almost 6,000 reputation)

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

2017 Dynamic DNS.

Designed and developed software to dynamically update DNS records for nodes without static IP addresses for reducing costs and improving usability of mobile workstations.

2016 Linux Firmware Support.

Developed firmware for supporting the Atmel MaxTouch Touchscreen in the Lenovo Thinkpad Yoga 11e Chromebook (and other devices such as the Google Pixel 2) on vanilla Linux kernels.

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 boiler plate 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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