

BLAKELOCK BROWN

2A ELECTRICAL AND COMPUTER ENGINEERING - UNIVERSITY OF WATERLOO

PERSONAL WEBSITE: blakelockbrown.com

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QUALIFICATIONS:

- Ranked in the top 10% of class for academic standing in 1B term
- Programming languages: C, C++, C#, Python, Java, Swift, Objective C, Assembly, MATLAB, VHDL and SQL
- Exceptional web development skills in HTML, CSS, JavaScript, jQuery, AngularJS, Node.js, Laravel and PHP
- Command line knowledge of Git, Mercurial, SVN and Vim
- Excellent communication and collaboration skills, ranked "Outstanding" on previous two co-op terms
- Strong leadership and teamwork skills, captain of intramural soccer team and academic class representative

WORK EXPERIENCE:

Front End Developer - Genesys Laboratories

September 2015 - December 2015

- Improved performance of AngularJS frontend by over 90% by removing complex watch expressions and implementing a custom virtual scroll that dynamically renders DOM elements as they are scrolled into view
- Prevented CPU intensive tasks from blocking Node.js's single threaded backend by using child processes to distribute tasks across multiple computing cores in a round-robin scheduling system
- Worked on several large application features including an intelligent search, copy-paste, commenting, etc.

Full Stack Developer - Ticketfi

January 2015 - April 2015

- Built a new homepage, increasing customer conversion rates and improving the overall UI/UX of the website
- Implemented several core features including a form builder, an event invitation system, an email system, etc.
- Worked in PHP using the Laravel framework with a MySQL backend, used jQuery and Bootstrap on the frontend

SIDE PROJECTS:

Hackroulette - <http://hackroulette.xyz/>

April 2015

- Developed an intelligent chat application that analyzes a user's twitter feed using machine learning algorithms, discovers their interests and strategically pairs users to create great conversations
- Used Node.js and Socket.io to implement real time chat across multiple chat rooms
- Assisted with design and implementation of elegant front end and integration of numerous API's

Python Compiler - <http://pythoncompiler.com/>

October 2015

- Built an online python compiler for testing python scripts, complete with full syntax and error checking
- Integrated backend file I/O to send and receive data, wrote simple frontend for fast and easy scripting

HONOURS AND AWARDS:

- Placed top eight software projects at HackPrinceton
- Placed top five overall hacks at deltaHacks and won sponsor prize from Geographers without Borders
- Awarded Best Website Design at Shad Valley Entrepreneurship Cup 2013
- Recipient of President's Entrance Scholarship for an admission average of 90% to 94.9%
- Recipient of Gwen Gahagan Scholarship for exceptional community leadership and academic excellence
- School Champion in Waterloo's Grade 12 Euclid Math Contest
- Exchanges Canada Certificate of Participation for a 6-week summer student work exchange program with the YMCA