

Website

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Github

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Connor J. Smith

BASc. Candidate, Computer Engineering

University of Toronto, Expected May 2017

BASc., Computer Engineering

University of Toronto

cGPA: 3.89/4.0

Expected May 2017

Education

Pursing a BASc. with a focus on embedded systems, networks and operating systems.

Awarded for continually demonstrating both outstanding academic performance and community involvement.

Ranked within the top 10 students in my year based on academic achievement.

Software Engineering Co-Op

Top Hat, Inc.

tophat.com

May 2015 – September 2015

Director of Mentorship

General First Year Engineering

March 2014 – March 2015

Experience

Designed and implemented the textbook content platform used by nearly 300,000 students and professors worldwide.

Platform was implemented using Backbone.js and various Javascript libraries on the front end and Python (Django) on the back end.

Operated an organization of over 50 upper year mentors designed to help integrate 200 first year engineering students into university life.

Coordinated and trained all mentors, allowing for various team-building events throughout the year.

Mapping and Routing System

University of Toronto

January 2015 – April 2015

Real Time Assembly Interpreter

University of Toronto

March 2015

Projects

Developed and documented a full, graphical Google Maps-like application using C++ and OpenStreetMap data within a team of three engineering students.

Implemented and modified the Dijkstra, A-star and genetic algorithms to achieve solutions within 5% of the optimal solution to the classical travelling salesman problem.

Engineered a working assembly language interpreter using Verilog HDL and the NIOS II assembly language on the Altera DE2 FPGA platform.

Modified processor hardware source code to implement custom instructions to improve the speed and maintainability of the project.

Stock Analysis Algorithm

UTEK Engineering Competition

January 2015

Designed and implemented an algorithm in Python within a team of 4 engineers to optimize profits as a part of an open-ended competition.

Algorithm used a combination of linear algebra, calculus and heuristic optimizations to deliver an efficient and accurate solution.

Various Hackathons

Code available on Github

YHack(2013), Hack The North (2014), UofT Hacks (2015)

Skills & Tools

Programming Languages

Development Tools

Relevant Courses

Python, C++, C, Javascript, HTML5/CSS3, Verilog, Assembler, MATLAB

Django, Git, Quartus II FPGA Suite, Linux/bash, Vim, NI Multisim

Operating Systems, Computer Networks, Algorithms & Data Structures, Computer Organization, Digital Systems