Josh DeGrazia

Fourth Year University of Waterloo Computer Science Student

12491 Kennedy Road North, Caledon, Ontario, Canada

(+1) 416-995-5744 | joshdegrazia@gmail.com | joshdegrazia.github.io | joshdegrazia | joshdegrazia

Education

University of Waterloo *Waterloo, Ontario, Canada*

B.C.S. (Bachelors of Computer Science) *Sept. 2013 - Present*

- with Business Option and a Minor in Combinatorics & Optimization

Skills

Languages C, C++, C, Java, Python, Bash, Ruby, HTML, CSS, Javascript (ES6), Coffeescript

Technologies React, Rails, Sass, Webpack, ASP.NET, Android, Node.js

Experience

Software Developer, RPM Technologies *Toronto, Ontario, Canada*

May 2014 - August 2014; May 2015 - August 2015; Jan. 2016 - April 2016 *Java, VB6, C#, ASP.NET, Perl, Python*

- Created a compiler using Perl and Java to translate a 180,000 line Visual Basic 6 program into a C# ASP.NET program, vastly improving the performance and reliability of the program by re-writing core functionality with the new tools available
- Wrote a large Python project which generated and processed large, encoded test government documents related to financial records which the QA team was previously required to write by hand

Full Stack Engineer, Chalk.com *Kitchener, Ontario, Canada*

September 2016 - December 2016 *CoffeeScript, Ruby on Rails, React, Sass*

- Created a feedback module allowing administrators to leave feedback for teachers on each of their lesson plans, allowing teachers and school-level administrators to view aggregated feedback on a centralized page
- Created PDF export options for teachers allowing them to print out progress on state-level teaching standards and their weekly attendance, as well as front-end interfaces for accessing each report
- Collaborated on the design and implementation of a large client infrastructure change allowing users to be grouped by school, in addition to previously only being grouped by their institution
- Worked heavily with the product and front-end leads on creating new coding standards and design patterns for React code in order to increase productivity, make feature implementation easier, and follow more closely with industry best practices

Software Engineer, Amazon.com *Vancouver, BC, Canada*

June 2017 - August 2017 *Java, Spring, AWS*

- Implemented an email filtering mechanism for annoying emails in Amazon's legacy recruiting website
- Created a meaningful change in the backend architecture of their recruiting website by completely restructuring emails and cleaning up old code, in order to allow large scalability in the future
- Collaborated with a high-level engineer to create a new system for creating and sending emails, which newly utilized several Amazon microservices in order to improve efficiency in the system

Relevant Projects

OS/161

C, Bash

- Built a basic command-line operating system for CS 350 (Operating Systems)
- Implemented basic system calls for managing thread state as well as synchronization primitives for use in the OS
- Implemented virtual memory management using page tables

WLP4 Compiler

C++, Bash

- Over the term, created a fully functioning compiler for a subset of the C language called WLP4
- Wrote an assembler translating a set of MIPS commands to binary instructions
- Created a WLP4 parser and used it to produce MIPS commands, which were then translated into binary using the assembler we had previously built