

Joey Pereira

software developer

contact

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joeypereira.com
github.com/xlegoz

languages

C
Java
Javascript
PHP
Actionscript
HaXe
Haskell
Erlang
Python
Racket
Bash

tools

Git
MySQL
L^AT_EX

reverse engineering

.NET Reflector
Java Decompiler
Java Bytecode Editor
Ollydbg
Smali

interests

distributed systems
reverse engineering
operating systems
machine learning
formal languages
compilers and assemblers

entrepreneurship
fishing and sailing
new tech

about me

I currently an undergraduate Computer Science student at the University of Waterloo, and have a passion for theoretical computer science, software development solutions and the innovation and creation of new ideas leading to entrepreneurial opportunities.

qualifications

avid leader experienced with small teams adaptable to any environment
enjoys challenging problems passion for learning *loves computer science*

education

- 2013-2018 **Bachelor's of Computer Science, University of Waterloo** Waterloo, Canada
Projected minor in combinatorics and optimization and management studies
based on interests of entrepreneurship and problem solving
Highly involved in campus volunteering, events and collaboration groups
Cumulative average of 84.2%, and taken advanced level computer science
- 07-09 2013 **Startup Engineering Course** Stanford - Coursera (Online)
Learning about what it takes to develop an idea from a business perspective
Discover methods behind innovative work
- 01-02 2014 **Web Development Course** Udacity (Online)
Building applications on Google App Engine, using Python
Learning various techniques for handling web data, and about the internet
- 01-02 2014 **Ontario Secondary School Diploma** Centre Wellington District High School
Highly involved with leading several clubs and educating fellow peers with knowledge outside of curriculum

experience

- 2011-2012 **J&J Tech** Co-founder and Head Technician
Investigated starting a *small business* with a partner
Management skills gained through advertising and customer handling
Underwent management and organizational *responsibilities*
Enhanced understanding of business operation and **TODO**
- 06-08 2011 **PlanetCPU** Service Assistant (Co-op)
Diagnosing both software and hardware under *tight time constraints*
Working as a *team to solve problems* as well as *marketing and business tasks*
Learned how to be a *key contributor* to a small team and the business itself
- 06-08 2012 **Katerberg Framing** Framing Carpenter
Small *team collaboration* to achieve *tight deadlines*
Worked with various tools of the trade to *optimally complete tasks*
- 11 2013 **David Cheriton School of Computer Science Recruitment** Recruitment Volunteer
Volunteered for University of Waterloo Fall events for prospective students
Set up *technical systems* and miscellaneous equipment for the event
Assist prospective students in *discovering computer science* as a passion
- 2012-2013 **Elora Road Christian Fellowship** Technical Organizer
Solve various *problems under pressure* to maintain event quality
Facilitating sound and operation of a small worship team

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projects

- | | | |
|------|---|------------------------|
| 2013 | JoOS - Bare Bones Operating System - <i>ASM, C</i>
Created in passion for learning more about
Involves assembly, multiboot standard and interrupt handling
Goal of discovering more within operating system theory | github.com/xlegoz/JoOS |
| 2013 | jjNES - Nintendo Entertainment System Emulator - <i>Java</i>
Aimed to create a better understanding of computer architecture
Gathering information on how components interact within the system
Involving an understanding of machine code and a model of memory | Still in research |
| 2013 | Coldeas - Collaborative Classroom Space - <i>Java</i>
Discovering solutions to problems such as:
Developing unique data structures undergoing delta compression, coordinate transformations, and node linking
Designing a server structure to handle active updates and conflict management | Still in research |
| 2013 | Mobile Door Locking - Multi-platform door locker - <i>Arduino, Java</i> | Still in invention |

achievements

- | | | |
|---------|---|--|
| 02 2013 | Educational Computing Organization of Ontario Programming Contest Semi-finalist
University of Western Ontario | |
| 04 2013 | Canadian Computing Contest Certificate of Distinction | University of Waterloo |
| 06 2013 | Mathematical Merit Award | Centre Wellington District High School |
| 06 2013 | Ontario Scholar Award | Centre Wellington District High School |

misc. relevant activities

reverse engineering:

Knowledge of obfuscated code and various obfuscation techniques

Experience with various tools for the following technologies;

Java Bytecode
Dalvik Bytecode (Android)

Common Intermediate Language (.NET)
Assembly