JoeyPereira

software developer

contact

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joeypereira.com
github.com/xlegoz

languages

Actionscript
Racket
HaXe
Java
PHP
C

working knowledge:

Javascript
Haskell
Python
Erlang
Bash

tools

MySQL
LaTeX
Git

reverse engineering

Java Bytecode Editor
Java Decompiler
.NET Reflector
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
enjoys challenging problems

experienced with small teams
passion for learning

adaptable to any environment
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 - *ASM, C*	github.com/xlegoz/JoOS

Created in passion for learning more about
Involves assembly, multiboot standard and interrupt handling
Goal of discovering more within operating system theory

2013	**jjNES** - Nintendo Entertainment System Emulator - *Java*	Still in research

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

2013	**Coldeas** - Collaborative Classroom Space - *Java*	Still in research

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

2013	**Mobile Door Locking** - Multi-platform door locker - *Arduino, Java*	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	Common Intermediate Language (.NET)
Dalvik Bytecode (Android)	Assembly