JoeyPereira
software developer

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joeypereira.com
github.com/xlegoz

languages
experienced with:
Java
Racket
C
HaXe
Actionscript

working knowledge:
Javascript
Python
PHP
Erlang
Bash

tools
Git
LaTeX
MySQL

reverse engineering tools
Java Bytecode Editor
Java Decompiler
.NET Reflector
Ollydbg

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

innovating & inventing
theoretical physics
fishing and sailing
entrepreneurship
new tech

about me

I'm currently an undergraduate Computer Science student at the University of Waterloo. I have a passion for theoretical computer science, software development, and the innovation along with creation of new ideas.

qualifications

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

projects

2014   **Pi Net** - Raspberry Pi Mesh Based Network   Still in development
Intentions to discover the network interaction of multiple devices over a mesh topology network and the sustainability of an intranet with all nodes

2013-2014   **JoOS** - Bare Bones Operating System - *NASM, C*   github.com/xlegoz/JoOS
Goal of learning more about the operating system layer and theory
Involved i386 instruction set, operation at a low level and interrupt handling

2013-2014   **Coldeas** - Collaborative Classroom Space - *Java*   Still in research
Involved finding solutions to problems such as:
Designing a server structure to handle state updates and conflict management
Utilizing data structures requiring delta compression and spatial representation

2013   **jjNES** - Nintendo Entertainment System Emulator - *Java*   Still in research
Aimed to achieve a better understanding of computer architecture
Observed models of how components interact within the NES architecture
Involved an understanding of machine code, processor operations

experience

06–08 2013   **Framing Carpenter**   Katerberg Framing
Involved in small *team collaboration* to achieve *tight deadlines*
Worked with various tools of the trade to *optimally complete tasks*

2012-2013   **Co-founder and Head Technician**   J&J Tech
Investigated starting a *small business* with a partner
Gained *management skills* through advertising and customer handling
Underwent management and organizational *responsibilities*

06–08 2012   **Service Assistant**   PlanetCPU
Diagnosed software and hardware problems under *tight time constraints*
Worked as a *team to complete tasks*, as well as run a market campaign
Learned how to be a *key contributor* to a small team and to the business

Volunteering

2013-2014   **Recruitment Ambassador**   David Cheriton School of Computer Science, uWaterloo
Volunteered in University of Waterloo events for prospective students
Set up *technical equipment* for the event
Help prospective students in *discovering computer science* as a passion

2012-2013   **Technical Organizer**   Elora Road Christian Fellowship
Solved various *technical problems under pressure* to maintain event quality
Facilitated a small worship team and the operation of equipment

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education

2013-2018	**Bachelor's of Computer Science, University of Waterloo**	Waterloo, Canada

Projected minor in management studies based on interests of entrepreneurship
First year representative on Math Endowment Fund Funding Council
Cumulative average of *85%*

07-09 2013	**Startup Engineering Course**	Stanford - Coursera (Online)

Learned about what it takes to develop an idea from a business perspective
Introduced to node.js and using PaaS

01-02 2014	**Web Development Course**	Udacity (Online)

Built applications on Google App Engine using Python

01-02 2014	**Ontario Secondary School Diploma**	Centre Wellington District High School

Involved in school community, having led several clubs teaching peers knowl-
edge outside of curriculum and creating initiatives to learn with collaboration

achievements

09 2013	**Google Ship Wars Hackathon** *Top 10*	Google, Waterloo

Developed an AI script which challenged fellow competitors
Acquainted with new tools and an API under a heavy time constraint

Educational Computing Organization of Ontario Programming Contest *Semi-finalist*
02 2013
University of Western Ontario
Directed a team in a highly team-oriented problem solving environment
Utilized critical thinking to translate solutions to code

04 2013	**Canadian Computing Contest Certificate of Distinction** *Top 100*	University of Waterloo

Created efficient algorithms to problems by unconventional thinking

06 2013	**Mathematical Merit Award**	Centre Wellington District High School

06 2013	**Ontario Scholar Award**	Centre Wellington District High School

relevant activities

reverse engineering:
Driven from a passion to understand the workings of software and what drives a security focus
    in the development cycle, as well as to discover code structure post-compiling
Knowledge of obfuscation and encryption methods for retaining integrity
Experience decompiling and analyzing programs, in particular malicious software