

Joey Pereira

software developer

contact

226 343.9309
joey@joeypereira.com

joeypereira.com
github.com/xlegoz

languages experienced with:

Java
Racket
C
HaXe
Actionscript

working knowledge:

Javascript
Python
PHP
Erlang
Bash

tools

MySQL
L^AT_EX
Git

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
enjoys challenging problems

experienced with small teams
passion for learning

adaptable to any environment
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 - <i>ASM, C</i> | 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 - <i>Java</i> | 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 - <i>Java</i> | 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 <i>team collaboration</i> to achieve <i>tight deadlines</i>
Worked with various tools of the trade to <i>optimally complete tasks</i> | |
| 2012-2013 | Co-founder and Head Technician | J&J Tech |
| | Investigated starting a <i>small business</i> with a partner
Gained <i>management skills</i> through advertising and customer handling
Underwent management and organizational <i>responsibilities</i> | |
| 06-08 2012 | Service Assistant | PlanetCPU |
| | Diagnosed software and hardware problems under <i>tight time constraints</i>
Worked as a <i>team to complete tasks</i> , as well as run a market campaign
Learned how to be a <i>key contributor</i> 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 <i>technical equipment</i> for the event
Help prospective students in <i>discovering computer science</i> as a passion | |
| 2012-2013 | Technical Organizer | Elora Road Christian Fellowship |
| | Solved various <i>technical problems under pressure</i> to maintain event quality
<i>Facilitated</i> 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 knowledge 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
- 02 2013 **Educational Computing Organization of Ontario Programming Contest Semi-finalist**
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