# JoeyPereira

software developer

#### contact

226 343.9309 joey@joeypereira.com

> joeypereira.com github.com/xlegoz

#### languages

Actionscript Racket HaXe Java PHP

#### working knowledge:

Javascript Haskell Python Erlang Bash

C

#### tools

MySQL LATEX Git

## reverse engineering

Java Bytecode Editor Java Decompiler .NET Reflector Ollydbg

#### interests

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

theoretical physics fishing and sailing entrepreneurship new tech

## about me

I'm 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 Water Projected minor in combinatorics and optimizate based on interests of entrepreneurship and pulling involved in campus volunteering, events Cumulative average of 84.2%, and taken advantage	ion and manage problem solving and collaboratic	n groups
07-09 2013	Startup Engineering Course Learned about what it takes to develop an idea Discovered methods behind innovative work		- Coursera (Online) s perspective
01-02 2014	<b>Web Development Course</b> Built applications on Google App Engine, using Learned various techniques for handling web d	,	Udacity (Online)
01-02 2014	Ontario Secondary School Diploma Highly involved having lead several clubs, educedge outside of curriculum	0	District High School ers with knowl-

## **experience**

J&J Tech

2011-2012

	Management skills gained through advertising and custom Underwent management and organizational responsibilities	•
06–08 2011	PlanetCPU  Service Assistant (Co-op)  Diagnosed both software and hardware under tight time constraints  Worked as a team to solve problems as well as do a market campaign  Learned how to be a key contributor to a small team and to the business	
06–08 2012	<b>Katerberg Framing</b> Involved small team collaboration to achieve tight deadlines Worked with various tools of the trade to optimally complete tasks	
11 2013	<b>David Cheriton School of Computer Science Recruitment</b> Nolunteered in 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	<b>Elora Road Christian Fellowship</b> Solved various <i>problems under pressure</i> to maintain event	Technical Organizer quality

Facilitated sound and the operation of equipment for a small worship team

Investigated starting a small business with a partner

Co-founder and Head Technician

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## projects

2013-2014	<b>Jo0S</b> - Bare Bones Operating System - ASM, C github.com/xlegoz/JoOS		
	Created from a passion of learning more about the operating system layer Involves assembly, the multiboot standard, and interrupt handling		
	Target goal of discovering more within operating system theory		

iiNES - Nintendo Entertainment System Emulator - Java 2013 Still in research Aimed to create a better understanding of computer architecture

Created models of how components interact within the system Involved a strong understanding of machine code and memory models

2013-2014 Coldeas - Collaborative Classroom Space - Java Still in research

Discovering solutions to problems such as:

Designing a server structure to handle active updates and conflict management Developing unique data structures undergoing delta compression, spatial trans-

position, and consisting of directed cyclic graphs

2013 Mobile Door Locking - Multi-platform door locker - Arduino, Java Still in invention

Planned a system of authentication to remotely lock a deadbolt

Established using the Arduino platform, utilizing various communication streams

including web sockets, email and sms protocols

Designed a mechanical system to complement the electronic system Worked with important security issues such as short-life authentication

## achievements

09 2013	<b>Google Ship Wars Hackathon</b> <i>Top 10</i> Developed an Al which challenged fellow cor Completed objectives with new tools and und		
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	<b>Canadian Computing Contest Certificate of Distinction</b> <i>Top 100</i> University of Waterloo Demonstrated key solving ability by creating efficient algorithms to problems		
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 the post-compiled code's structure Acquainted with measures taken to secure confidential data and a program's integrity Knowledge of obfuscated code and various obfuscation techniques