# JoeyPereira

## 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
Created to discover the interaction of multiple devices over a peer to peer network and the sustainability of the mesh network containing intranet throughout the network.

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

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 and 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***

11 2013 **Recruitment Ambassador** — David Cheriton School of Computer Science, uWaterloo
Volunteered in University of Waterloo Fall events for prospective students
Set up *technical systems* and miscellaneous 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

## contact

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
LaTeX
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

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## contact

226 343.9309
joey@joeypereira.com

joeypereira.com
github.com/xlegoz


## 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
Highly involved in campus volunteering, events, and collaboration groups
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
Discovered effective methods of development behind innovative work

01-02 2014 **Web Development Course** Udacity (Online)
Built applications on Google App Engine, using Python
Learned the internet's structure and various techniques for handling web data

01-02 2014 **Ontario Secondary School Diploma** Centre Wellington District High School
Highly involved in the school community, having led several clubs educating fellow peers with knowledge outside of curriculum, and creating initiatives to learn in a way often compliments course activities

## achievements

09 2013 **Google Ship Wars Hackathon** *Top 10* Google, Waterloo
Developed an AI which challenged fellow competitors
Completed objectives with new tools and 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
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 code structure post-compiling
Acquainted with measures taken to secure confidential data and a program's integrity
Knowledge of obfuscated code and various obfuscation techniques