

JoeyPereira

about me

I'm currently an undergraduate Computer Science student in the co-op program at the University of Waterloo. I'm always enthusiastic for entrepreneurship along with a passion for software development, innovation, and entrepreneurship.

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 86%

experience

09 2014-now **Full Stack Developer, PiinPoint** Waterloo, Canada
Working with data visualization of location analytics
Independently taking on projects through the entire development process
Developing a web app with JS, Python, and MongoDB
Building innovative solutions to spatial data visualizations and GIS tools

2012-2013 **Co-founder and Head Technician, J&J Tech** Fergus, Canada
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** Fergus, Canada
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 **Floor Volunteer** Hack The North, uWaterloo
Helped the event run smoothly, keep the hackers happy and feel at home

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

projects

2013 **SmartDoor** - Smart Deadbolt and Doorbell - *Python* Still in invention
Sniff various wireless protocols to pick up nearby devices
Push notifications upon seeing registered devices arrive
Built using the multiple Raspberry Pis, Python scripts, and many antennas

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 **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

contact

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languages

experienced with:

Python
Javascript
Actionscript
Racket
Java

working knowledge:

C
C++
PHP
Erlang
Bash

tools

Git
L^AT_EX
MongoDB
MySQL & PostgreSQL

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