

Joey Pereira

co-op student

contact

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joeypereira.com
github.com/xlegoz

skills

avid leader
adaptable
passion for learning
loves computer science

interests

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

innovating & inventing
theoretical physics
fishing and sailing
entrepreneurship
new tech

reverse engineering tools

Java Bytecode Editor
Java Decompiler
.NET Reflector
Ollydbg

about me

I'm currently a second year undergraduate Computer Science student in the co-op program at the University of Waterloo. I have a passion for theoretical computer science, software development, innovation, and computer security.

qualifications

- Experienced with Java, Racket, C, C++, Bash, Python, Javascript, PHP, and Erlang.
- Proficient with Git version control, SVN, MySQL databases, and Redis databases.
- Knowledgeable with network protocols, computer security, and program integrity.
- Experienced in low level programming, operating systems, and embedded devices.
- Familiar with Linux, virtual machines, and systems administration.
- Strong team communication skills and good with customer relations.

experience

- 06–08 2013 **Framing Carpenter** Katerberg Framing
Involved in small *team collaboration* to achieve *tight deadlines*.
Formulated ways to *optimally complete tasks* with tools of the trade.
- 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 events.
Guided prospective students to *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.

education

- 2013–2018 **Candidate for Bachelor of Computer Science** University of Waterloo
Projected minor in management studies based on interests of entrepreneurship.
First year representative on Math Endowment Fund Funding Council.
Cumulative average grade of 85%. Student of the co-op program.
- 01–02 2014 **Web Development Course** Udacity (Online)
Built applications on Google App Engine using Python.
- 07–09 2013 **Startup Engineering Course** Stanford - Coursera (Online)
Learned about what it takes to develop an idea from a business perspective.
Learned node.js while utilizing Platform as a Service.
- 2009–2013 **Ontario Secondary School Diploma** Centre Wellington District High School
Led several clubs including a club that taught peers knowledge outside of curriculum and created initiatives to learn with collaboration.

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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 intra-net with all nodes.		
2013-2014	JoOS - Bare Bones Operating System - <i>NASM, 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	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. Built a rudimentary machine code interpreter for 6502 processor.		
2013	Mobile Door Locking - Multi-platform door locker - <i>Arduino, Java</i>	Still in invention
Project to remotely control a deadbolt through mobile devices Built using the Arduino platform and with a Java server. Utilized various communication streams including email and SMS messages. Detailed important security issues such as short-lived authentication.		

achievements

09 2013	Google Ship Wars Hackathon <i>Top 10</i>	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 <i>Semi-finalist</i>	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 <i>Top 100</i>	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