Joey**Pereira**
co-op student

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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 - *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.
Built a rudimentary machine code interpreter for 6502 processor.

2013   **Mobile Door Locking** - Multi-platform door locker - *Arduino, Java*   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** *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