JoeyPereira software developer

contact

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> joeypereira.com github.com/xlegoz

languages

Actionscript Racket HaXe Java PHP

C

working knowledge:

Javascript Python Erlang Bash

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

innovating & inventing theoretical physics fishing and sailing entrepreneurship new tech

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 experienced with small teams adaptable to any environment passion for learning loves computer science

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**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**Built applications on Google App Engine, using Python

Learned the internet's structure and various techniques for handling web data

Ontario Secondary School DiplomaCentre 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

experience

01-02 2014

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

2011-2012 **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 2011 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

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projects

2014	Pi Net - Raspberry Pi Mesh Based Network S Created to discover the interaction of multiple devices over a pe	till in development er to peer net-	
	work and the sustainability of the mesh network containing intrarthe network.	net throughout	
2013-2014	Jo0S - Bare Bones Operating System - <i>ASM</i> , <i>C</i> github. Goal of learning more about the operating system layer and theo Involved assembly, interrupt handling, and knowledge of operation	•	
0010 0011			
2013-2014	Coldeas - Collaborative Classroom Space - <i>Java</i> Involved finding solutions to problems such as:	Still in research	
	Designing a server structure to handle state updates and conflict management Utilizing data structures requiring delta compression and spatial representation		
2013	ijNES - 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 Involved an understanding of machine code and processor operations		
2013	Mobile Door Locking - Multi-platform door locker - Arduino, Java Remotely use a system of authentication to lock a deadbolt Built using the Arduino platform, utilizing various communication	Still in invention	
	cluding web sockets, email and sms protocols		
	Built using the Arduino platform, utilizing various communication streams including web sockets, email and sms protocols Worked with important security issues such as short-life authentication		

achievements

09 2013	Google Ship Wars Hackathon <i>Top 10</i> Developed an Al which challenged fellow co	Google, Waterloo mpetitors	
	Completed objectives with new tools and un	nder a heavy time constraint	
02 2013	Educational Computing Organization of Ontario Programming Contest Semi-finali		
	University of Western Ontario Directed a team in a highly team-oriented pr Utilized critical thinking to translate solutions	3	
04 2013	Canadian Computing Contest Certificate of Distinction <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 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