

## about me

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

## 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 **Software Engineer, PiinPoint** Waterloo, Canada  
Working with data visualization of location analytics in a fast paced startup.  
Rapidly learning technologies to build new components  
Independently taking on projects through the entire development process.  
Using ReactJS and Reflux, Pyramids, Flask, MongoDB, PostgreSQL.  
Created and published initial iOS application product.

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.

### Volunteering

2015-now **Organizer, Platform Team** Hack The North, uWaterloo  
Developing a hackathon organizing API service, independent of our event.  
Set up infrastructure with Docker, Nginx, Unicorn, Python (Tornado) and PostgreSQL.  
Created the web application for applicants, using React and Reflux.

2014 **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.

## projects

2015 **Kerbos Platform** - Secure Chat Platform [github.com/TranceSquid/kerbos-machine](https://github.com/TranceSquid/kerbos-machine)  
Current MVP goal is a Python RESTful server implementation.  
Designed as an extensible platform to build secure chat.  
Future roadmap is to develop clients for various platforms.

2015 **TechTanks** - Ruby AI Simulation [github.com/TechRetreat/RTanque](https://github.com/TechRetreat/RTanque)  
Programming game where you create tank AIs and fight each other!  
Developer for TechRetreat, a hackathon for highschool students to learn about software development.

2015 **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 a ton of antennas.

2014 **JoOS** - Bare Bones Operating System - *NASM, C* [github.com/xLegoZ/JoOS](https://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.

### contact

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[github.com/xlegoz](https://github.com/xlegoz)

### languages

#### experienced with:

Python  
Javascript  
Objective C  
Racket  
Java  
Bash

#### working knowledge:

C  
C++  
PHP  
Elixir

### tools

Git  
L<sup>A</sup>T<sub>E</sub>X  
MongoDB  
PostgreSQL

### reverse engineering tools

Java Bytecode Editor  
Java Decompiler  
.NET Reflector  
Ollydbg

### interests

distributed systems  
reverse engineering  
operating systems  
machine learning  
compilers and  
assemblers

innovating & inventing  
theoretical physics  
fishing and sailing  
entrepreneurship  
new tech