

Joey Pereira

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Education

University of Waterloo, Candidate for Honours Bachelor of Computer Science, 2013 - 2018 (Expected)

- Awarded **Coop Student of the Year (2015)**. 3.85 GPA (85% average). Ambassador for School of Computer Science.

Experience

Shopify, *Developer Intern (co-op)*

(4 months) January 2016 – April 2016

- Developed solutions for large sized retailers and wholesale distributors, building several applications in **Rails** and **React**.
- Started and launched a Shopify app for wholesale, providing price management and an optimized customer experience.
- Built an infrastructure resiliency testing framework to describe infrastructure and test it. Inspired by Chaos Monkeys.

Hack the North (Techyon), *Co-Director*

(1+ years) February 2015 – Present

- Directed Hack the North 2016, Canada's biggest hackathon - with over 1000 hackers from 21 countries who attended.
- Operating a nonprofit organization dedicated to empowering the tech entrepreneurs, running events at uWaterloo.
- Managing a team of 26 students who volunteer their time in order to plan and organize Waterloo's tech biggest event.
- Integrating software we've developed in order to optimize operations, help make the event a success, and track data.

PiinPoint, *Lead Developer*

(1 year) September 2014 – September 2015

- An early stage startup in YCombinator which provides a location analytics to franchises for deciding where to open stores.
- Was solely responsible for creating the initial **iOS** application from scratch, benefiting customers with on the go analytics.
- Implemented creation of heatmaps of commute times, which involved routing algorithms and processing a 1TB geospatial dataset of the world's roads in **C++**. Used by all customers for optimal store regions, and statistical analysis.
- Redesigned the **Python** backend to follow REST, and use **MongoDB** and **PostgreSQL** ORMs, accelerating development.
- Created a service in **PhantomJS** for rendering complete reports to PDF. Was highly demanded by enterprise customers.
- Contributed to open source projects used by our team, most notably **SQLAlchemy** and **Leaflet.js**.

Projects

HackerAPI

February 2015 – Present

- Software backing Hack the North, including a **Python** API, an internal dashboard in **Flask**, and user interfaces in **React**.
- Supporting integrations for Slack bots, Github, support email. On the API we've supported up to 1000 concurrent users.
- iOS and Android apps with event information, a mentorship pairing tool, and data tracking for food consumption and more.
- Working on a roadmap in order to extend and open source all of the tools built for Hack the North for other hackathons

Wbot

2013 – 2014

- A bot client for a popular online video game, Runescape, developed in **Java**. Involved reverse engineering of bytecode.
- Featured a robust scripting API, and implemented competitor APIs for compatibility. Reached at most 250,000 users.

OneApp, devpost.com/software/oneapp

June 2016

- 3rd place winner of Battle of the Hacks v3 held by Andreessen Horowitz.
- Created a working Google Instant Apps implementation on iOS, with a set of basic demo apps, imitating the Google demo.

Moocast, devpost.com/software/moocast

June 2015

- Winning project for the Battle of the Hacks v2 hackathon held by Andreessen Horowitz for \$25,000.
- Judged as best hack by industry leaders from Tilt, Airbnb, Yahoo, 21 Inc, a16z, the University of Cornell, and more.
- Live streams the screen of an Android device to a web page using **Python**, **Node.JS** and FFmpeg.

TechTanks, techtanks.techretreat.ca github.com/TechRetreat/RTanque

August 2015

- A programming game where you code a tanks A.I. in **Ruby** to fight other players.
- Designed as an introduction to Ruby for a highschool hackathon TechRetreat, which was a great success.

Technical Skills

Languages

Javascript (Node.js · ES5 · ES6) · Python · Ruby · Racket · Java · Objective-C · C++

Frameworks

React · Rails · Angular.js · Flask · Tornado · Django

Datstores

Redis · SQL (PostgreSQL · SQLAlchemy · Alembic) · MongoDB (MongoEngine)