

Joey Pereira



<https://pereira.io>

joey@pereira.io

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

- Worked on the Shopify Plus team, developing solutions for large retailers and wholesale customers.
- Created and launched a Shopify app for wholesale, providing price management and a optimized storefront experience
- Built a infrastructure resiliency testing framework - a DSL to describe infrastructure, and test it inspired by Chaos Moneys.

PiinPoint, Lead Developer (co-op)

(1 year) September 2014 - September 2015

- An early stage startup, part of YCombinator, which provides a location analytics platform for franchises.
- Was solely responsible for creating the initial **iOS** application from scratch, providing a mobile interface for the product.
- Implemented creation of commute time heatmaps, which involved routing algorithms and processing a 1TB geospatial dataset of the world with **C++**. Turned into a scalable service with frontend visualization and interaction through **D3.js**.
- Redesigned the **Python** backend to follow REST semantics, and to use **MongoDB** and **PostgreSQL** ORM models.
- Created a framework in **PhantomJS** for rendering printable PDF reports of our generated data.
- Contributed to several open source projects used our product, most notably **SQLAlchemy** and **Leaflet.js**.

Hack the North (Techyon), Co-Director

(1+ years) February 2015 - Present

- A nonprofit organization dedicated to empowering the next generation of tech entrepreneurs, organizing Hack the North
- Currently co-directing Hack the North 2016, a hackathon with over 1000 attendees.
- Leading the development of all platform software. We've built an extensive infrastructure and lots of tooling.
- Includes a **Python** REST API backend, an internal team dashboard in **Flask**, a **React** user facing dashboard for applicants, and integrations including Slack bots, Github, and email support assistance. APIs Supporting 1000 concurrent users.

Projects

JoOS, github.com/xLegoz/JoOS

- A rudimentary operating system, as a venture into learning low level programming and hardware interfaces.

OneApp

- Second 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

- 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.

Wbot

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

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

- 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.

see more projects at <http://pereira.io/projects>

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 (SQLAlchemy · Alembic) · MongoDB (MongoEngine · Mongoose)