

# Joey Pereira

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 <https://pereira.io>

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**I write code in** Python, Go, Ruby, Javascript, C, Java, Racket

**I have used** React, Flask, Rails, Tornado

**I have made things with** PostgreSQL, MongoDB, Chef, ARMv4T

**I am interested in** distributed systems, product design, security, and privacy

## Education

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

- Received Coop Student of the Year award in 2015.

## Experience

**Stripe**, Software Engineering Intern, Winter 2017

- Launched a new product for Stripe with a very small team and contributed to core Stripe infrastructure.
- Designed an API specification for the product and worked directly with customers to integrate it.
- Built reconciliation processes for data with Ruby and Go, which now processes millions of transactions a day.

**Shopify**, Developer Intern, Winter 2016

- Developed features targeted towards enterprise companies and large retailers, using Rails and React.
- Started and launched a Shopify app for wholesale, providing price management and an optimized customer experience.
- Built resiliency testing framework to describe and test infrastructure. Inspired by Chaos Monkeys.

**PiiinPoint**, Lead Developer, Sept. 2014 - Sept. 2015

- Was solely responsible for creating the initial iOS application, providing a mobile version of the platform.
- Built a commuting time heatmap generator, which involved processing and routing OpenStreetMaps, a 1TB geospatial dataset. This was all done in C++ and was a feature that was highly regarded by customers.
- Contributed to open source projects used by our team, most notably SQLAlchemy and Leaflet.js.

**Hack the North**, Co-Director, Feb. 2015 - Present

- Directed Hack the North for two years, Canada's biggest hackathon - over 1000 hackers from 21 countries.
- Operating a nonprofit organization dedicated to empowering the tech entrepreneurs, running events at uWaterloo
- Managing a team of 35 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.

## Projects

**HackerAPI** – ongoing

- Software behind 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. The API has had up to 1000 users per minute.
- iOS and Android apps with event information, a mentorship pairing tool, and data tracking (e.g. food consumption).
- Working on a roadmap to open source all of the tools built by Hack the North for other hackathons.

**OneApp**, [devpost.com/software/oneapp](http://devpost.com/software/oneapp)

- 3rd place winner of Battle of the Hacks v3 hackathon held by Andreessen Horowitz.
- Created a working clone of Google Instant Apps implementation on iOS, successfully recreating the Google I/O demo.

**Moocast**, [devpost.com/software/moocast](http://devpost.com/software/moocast)

- 1st place winner of 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 Twitch or a web page using Python, Node.JS and FFmpeg.

**Wbot**

- A bot client for a popular online video game, Runescape, developed in Java. Involved reverse engineering of bytecode.
- Reached 250,000 daily users. It featured a robust scripting API with compatibility against competing APIs.