

Joey Pereira



I go



<https://pereira.io>



joey@pereira.io

I write code in Python, Go, Ruby, Javascript, C, Java, Racket, Elixir
I have used React, Flask, Rails, Tornado
I have made things with PostgreSQL, MongoDB, ARMv4T
I am interested in distributed systems, security and privacy, and operating systems

Education

University of Waterloo, Honours Bachelor of Computer Science

2013 - April 2018

- Valedictorian for Faculty of Mathematics class of 2018.
 - Received Coop Student of the Year award in 2015.
-

Experience

Stripe, Software Engineering

Aug. 2018 - Present

- Building financial systems, supporting the payments engineering org, account, and treasury finance teams.

Cockroach Labs, Software Engineering Intern

Aug. 2017 – Dec. 2017

- Built a tool for verifying and correcting data integrity issues in [CockroachDB](#), a distributed relational database.
- Improved official support for SQLAlchemy and ActiveRecord, and added ORM test suites to the CockroachDB nightlies.
- Created feature prototypes, such as a SQL query optimizer and MongoDB protocol support.

Stripe, Software Engineering Intern

Jan. 2017 - Apr. 2017

- Launched the closed beta of Stripe Issuing, including the design of the product API spec and banking integrations.
- Established a monthly Stripe load test for resource planning, and led the investigations for load-related outages.

Shopify, Developer Intern

Jan. 2016 - Apr. 2016

- Built and released a beta of Shopify's wholesale app, providing specialized price management.
- Prototyped a resiliency testing framework to automatically test infrastructure failure modes.

PiinPoint, Lead Developer

Sept. 2014 - Sept. 2015

- Built and launched the initial iOS version of the platform.
- Created a top feature, an in-house travel-time calculation system and saved \$10,000/mo, with OpenStreetMaps datasets.
- Contributed to OSS, adding Postgres JSON support to SQLAlchemy and vector/text support for a Leaflet.js plugin.

Hack the North, Co-Director

Feb. 2015 - Sept. 2017

- Directed Canada's biggest hackathon, with over 1000 hackers coming from 21 countries, for two years.
 - Managed a team of 35 student volunteers, along with yearly hiring and succession planning.
-

Projects

HackerAPI – Tools and APIs for Hack the North to review 5000+ applicants, participant reimbursement management, etc.

OneApp - PoC Google Instant Apps on iOS. 3rd place in Battle of the Hacks, a16z. devpost.com/software/oneapp

Moocast - App that streams Android devices to Twitch. Winner of Battle of the Hacks, a16z. devpost.com/software/moocast

Wbot - Bot client for popular online game, Runescape. Involved JVM bytecode reverse engineering. 250k DAU.