Joey Pereira

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Hey there! I am an extremely optimistic and passionate person, and I am always very enthusiastic at the opportunity to learn new technologies! My #1 trait is my optimism and passion towards all projects I take on, and because of this I quickly pick up new technologies.

Experience

PiinPoint, *Lead Developer* – Waterloo, Ontario   Sep. 2014 – Sep. 2015

- Was biggest contributor to PiinPoint's product and software engineering practices
- Passionately learned new technologies, and brought the projects from start to finish with complete optimism
- Rebuilt the frontend codebase with **React** and **Reflux** and designed map visualizations with Leaflet and D3
- Migrated datasets from **MongoDB** to **PostgreSQL** using **SQLAlchemy**, wrote migrations using **Alembic**
- Implemented creation of drivetime heatmaps, by processing *600GB* of geospatial data into **PostgreSQL**
- Created a framework in **PhantomJS** for rendering printable PDF content
- Was solely responsible for creating the **iOS** application from scratch in **Objective-C**
- Rebuilt most of the **Python** API to follow RESTful semantics and use **MongoDB** MongoEngine models

Hack the North (Techyon), *Organizer (Platform Team)*   Feb. 2015 – Present

- Organized Hack the North 2015, the most anticipated tech event in Canada with over *1500* attendees
- Developed a generalized hackathon organizing RESTful API service, independent of our event
- Set up service infrastructure, involving Docker, Nginx, Gunicorn, **Python + Tornado**, and **PostgreSQL**
- Created web interfaces for applications and internal dashboards, using **React** and **Reflux**

Projects

JoOS, github.com/xLegoz/JoOS   2014

- A rudimentary operating system, as a venture into learning low level programming and hardware interfaces
- Developed in **ASM**, **C**, and compiled with a custom i516 target cross compiler

Moocast, http://devpost.com/software/moocast   Jul. 2015

- Winning project for the Battle of the Hacks hackathon held by Andreessen Horowitz
- Live streams the screen of an **Android** device to a web page using **Python**, **NodeJS** and **ffmpeg**

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

see 20 more projects at http://pereira.io/projects

Education

Candidate for the Bachelor of Computer Science (Honours), *University of Waterloo* - Waterloo, Ontario   2013 - 2018

- Member of Math Endowment Fund Council, responsible for allocating budgets to clubs and organizations
- Ambassador for School of Computer Science, taken part in open house events

Technical Skills

Languages	Javascript, Python, Java, Ruby, Racket, Objective-C, Erlang, Bash, PHP, C++
Frameworks	React, Angular.js, Node.js, Flask, Tornado, Pyramid, Django, MongoEngine, SQLAlchemy
Databases	PostgreSQL, MongoDB, MySQL, RethinkDB