Diego Berrocal

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EXPERIENCE

Programmer, Recurse Center
Fall 2015 | New York, NY

The Recurse Center is a self-directed, educational retreat for people who want to get better at programming.

- **Sweetgreen.el** — developed a program that allows you to place online orders at Sweetgreen without leaving Emacs. Used internal API from the domain to engineer the process with HTTP
- **GifBump** — built a Chrome extension using React that sends personalized fist bump gifs over the internet
- **nand2tetris.el** — gained deeper knowledge of how snippets are created in Emacs by making a major mode in this Emacs companion to nand2tetris
- **RSVP Bot** — used Test Driven Development with a team to upgrade a Zulip bot to understand a wider range of options.

Research Student, McMaster University
January 2015 - April 2015 | Ontario, Canada

- Implemented a new watershed algorithm for partitioning following guidelines from the Quantum Theory of Atoms in Molecules (QTAIM)
- Wrote and successfully implemented tests for personal code
- Maintained tests for colleagues' code
- Learned the "pythonic" way of doing stuff and that design patterns don't apply to every language
- Successfully toggled between implementations of the algorithm when the research requirements were changed weekly
- Learned how to debug efficiently implemented on a bi-weekly basis

Full Stack Junior Dev, **GMAT Dudes**
January 2014 - June 2014 | Lima, Peru

- Developed a GMAT Exam simulator in BackboneJS and Django
- Implemented MVC patterns in Single Page Applications
- Learned to provision servers with ansible
- Got a wide knowledge of many web technologies
- Experimented with a variety of solutions as the sole developer

SKILLS

Python, JavaScript, **Emacs Lisp**

EDUCATION

Attended **Universidad Nacional de Ingenieria,** Peru for Physics from Aug 2010 to Dec 2014