Nathan Lilienthal

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github.com/nixpulvis ∘ nixpulvis.github.io/nixpulvis/projects

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Languages: Ruby, Rust, C/C++, LUA, and Racket. ECMAScript (JS), Python, Java, and Shell and many more...
Systems: UNIX, Linux, Git, GitHub, Rails, Postgres, AVR/ARM, WoW (ask me about it).

Professional Experience

- **Forward Financing Inc.** **Boston, MA**
  Sr. Software Engineer *May 2018 – Current*
  - Developed a client wrapper for our Algolia search implementation.
  - Performed many various application performance improvements, often caused by unacceptable response times, quickly.
  - Planned and lead refactoring and dev tool efforts. This includes object model improvements, a CLI for managing Heroku, and more.
  - Mentored our coops by providing deep code reviews, and spending time pairing on problems (both mine and theirs).
- **Apple Inc.** **Cupertino, CA**
  Software Engineer *Jan. 2015 – Aug 2015, Jul 2016 – Jul 2017*
  - Developed a Ruby library (`radic`) and CLI (`radish`) for interacting with Apple's bug managment system (aka Radar).
  - Worked on an internal tool for managing hardware validation. Somewhat inspired by Travis CI.
  - Contributed to an internal tool for analysing pre-production device test data.
- **Americas Test Kitchen** **Boston, MA**
  Web Developer *Jan. 2014 – June 2014*
  - Pushed code to the front-end and back-end for all four of Americas Test Kitchen's websites including bug fixes and technical infrastructure upgrades.
  - Built modularized components to abstract functionality found common throughout the companies codebase.
- **Bluesocket - Adtran** **Burlington, MA**
  Software Developer *Jan. 2013 – June 2013*
  - Developed an automated build system which allowed developers to see how their changes would affect a real build of the system. Reduced turnaround time, allowing anyone to easily run a build.
  - Addressed user reported issues in Ruby/Rails and LUA, including hardening validations, and updating database migrations for old versions of the software.
  - Designed a class/model structure for users and accesspoints, which allowed the back-end to represent clients of individual accesspoints.
- **Northeastern University CCIS** **Boston, MA**
  Teaching Assistant for Fundamentals of Computer Science 1 *Fall 2012, Fall 2013, Fall 2014*
  - Conducted mini lectures, monitored class progress and answered students' questions.
  - Discovered new ways to present concepts that facilitated student understanding.
  - Held office hours to further help students with the course.
- **HOMER Energy** **Boulder, CO**
  Software Developer, Summer Intern *Summer 2012, Jul 2017 - Nov 2017*
  - Developed an internal tool to view the Google Protocol Buffer used to pass values between all parts of the application. This allowed developers to quickly see what the values of program inputs and outputs were.
  - Created a web based front-end for HOMER in Rails. This was the starting point for another version of HOMER, and provided a proof of concept for how to integrate the HOMER API with a webserver.
  - Built API integrations for the HOMER C# application, including REST and CSV file APIs. As a part of this process I refactored a lot of the code which imports data, and added tests.

Interests: Microelectronics, Computer Architecture, Teaching, Skiing, Woodworking (aspiring), Music.

Education

- **Northeastern University** **Boston, MA**
  College of Computer and Information Science *2011 – 2016*
  Bachelor of Science in Computer Science
  - Relevant Courses Taken: Programming Languages, Systems and Networks, Artificial Intelligence, Theory of Computation, Object Oriented Design, Computer Organization, Fundamentals of Computer Science 1 & 2, Logic and Computation, Algorithms and Data Structures, Special Topics in Programming Languages, Software Development (aka HELL), Compilers, Combinatorics.
  - Courses TA'd: Fundamentals of Computer Science 1 (4 years).