# Isaac Diamond

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## Skills

Proficient: Python (2.7 and 3.6), JavaScript, Java, Unix Systems Administration, Shell, Git, Docker, Mesos, MySQL, MongoDB
Familiar: C, C++, Go, CSS3/HTML5, OCaml, Ruby, Scala, Clojure, PostgreSQL

## Experience

**Facebook** - Production Engineer Intern - Menlo Park, CA                                        Summer 2017
- Automating processes supporting exabyte-scale BLOB storage infrastructure with a custom Python 3 asyncio framework
- Developed a new trash collector to reclaim tens of petabytes of space daily, in a fast, safe, highly observable way, improving upon the existing trash collector by decreasing the runtime of the process from 15 hours to 20 minutes
- Created new distributed automation to stop writes to volumes of BLOBs at capacity, a critical part of the overall system
- Built and deployed service to collect and aggregate statistics over hundreds of millions of volumes of BLOBs

**Squarespace** - Software Engineering Intern (Site Reliability) - New York, NY                  Summer 2016
- Created automation tooling around Squarespace's infrastructure with a focus on service deployment and discovery within an Apache Mesos cluster using Python and Ansible
- Improved monitoring of the health of jobs running on Squarespace's Mesos cluster and other systems with Ruby
- Designed and deployed logging infrastructure for Docker containers running across Squarespace's fleet
- Overhauled Squarespace's continuous integration pipeline by deploying Jenkins with Dockerized build agents, allowing developers to build and deploy new services without SRE support
- Troubleshooted and repaired critical systems and site issues and engaged heavily in the postmortem process

**Visa, Inc** - Software Engineering Intern (Infrastructure Automation) - Foster City, CA         Summer 2015
- Automated management of core infrastructure, chiefly Cloudera Hadoop, with the Chef Automation toolkit
- Supported a distributed Jenkins deployment used for Infrastructure-As-Code continuous integration and delivery

**Haiku Deck** - Software Developer Intern - Seattle, WA                                          Summer 2014
- Designed, developed, delivered and deployed a scalable, RESTful web service to create raster images of Haiku Deck slides with Node.js/Express, Parse, and Selenium
- Architected and implemented a range of tooling in support of that service including Vagrant, Nginx and HAProxy
- Created Python and JavaScript tools to analyze the differences between the iPad and web application editions of the product and bring them to parity

**Rover.com** - Software Developer Intern - Seattle, WA                                           Summer 2013
- Redesigned the homepage of Rover.com to be mobile friendly using HTML, Sass, and the Django MVC framework

## Education

**University of California, San Diego** - B.S. Computer Science          Class of 2018 (Graduating December 2017)
*Jacobs School of Engineering*

3.6 GPA - National Merit Scholar - Provost Honors

## Activities

**Carcino Health** - Software Engineer                                                            2017
- Developed a Node.js/Express web application that allows cancer patients to track side-effects from their treatment and report them to healthcare providers
- Implemented, configured and supported a variety of AWS Infrastructure, including DynamoDB, S3, ECS, and Cloudwatch
- Supervised and mentored more junior engineers, introducing best practices for JS engineering, compliance, and reliability

**Center for Applied Internet Data Analysis** - Research Assistant                                2016-2017
- Built high performance and parallel Python tooling to collect connectivity and performance metrics from a large network of Raspberry Pi computers connected in homes and universities around the world

**Triton Engineering Student Council** - Technical Team Lead                                      2015-2016
- Created a website and administration tools for career fair, attended by over 100 companies and 3000 students
- Acted as a systems administrator and webmaster for the Triton Engineering Student Council website