Isaac Diamond

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Skills

Proficient: Go, Python, Ruby, Rust, JavaScript, Unix Systems Administration, Kubernetes, Shell, Git, MySQL, MongoDB
Familiar: C++, C, Java, CSS3/HTML5, OCaml, Scala, Clojure, PostgreSQL

Experience

Stripe - Software Engineer - Seattle, WA   Present

Stripe - Software Engineer - San Francisco, CA   2018

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. Improved 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 when full, enabling effective capacity distribution
- Built and deployed a new 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
- Worked to overhaul Squarespace's continuous integration pipeline by deploying a Jenkins proof of concept with Dockerized build agents, allowing developers to start building and deploying 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 analytics 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
- Created Python and JavaScript tools to analyze the differences between the iPad and web application editions of the product and bring them to parity

Education

University of California, San Diego - B.S. Computer Science   Class of 2018 (Graduated 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