

Nicolas Hahn

nicolas@stonespring.org
nicolas-hahn.com
github.com/nicolashahn

Brooklyn, NY
(408)799-4714

Experience

Backend Software Engineer *Percolate*

Oct 2018 – Current

- Designed and currently implementing the backend for the Percolate Developer Platform, allowing third party developers to create applications that integrate with the Percolate interface
- Code owner of the Percolate Asset Manager service, handling 40 million+ file assets used for marketing content and campaigns, serving hundreds of thousands of requests per day
- **Python, Go, Django, SQLAlchemy, MySQL, PostgreSQL, gRPC, Thrift, Docker, OAuth2**

Participant *Recurse Center*

May 2018 – August 2018

- Attended a three-month, self-directed education retreat for programmers: recurse.com
- Studied neural nets, computer vision, various lisps and lisp interpreter implementations, Rust, Go, C, Lua, operating systems (Berkeley's CS162), cryptography ([cryptopals](#) exercises), microcontrollers ([Teensy](#)), game development (PIC0-8), concurrency models in various languages ([concurrent-wc](#)), security ([Stripe CTF](#)), contributed to [oilshell](#)

Full-stack Web Developer *Distribute*

Jul 2016 – Apr 2018

- Developed custom pricing system: sellers can set individual discounts for specific buyers
- Reduced page load time by 60% by optimizing product image hosting
- Transitioned a 50,000 line codebase from Angular 1 to React
- Backend: **Python, Flask, SQLAlchemy, MySQL, PostgreSQL, AWS EC2, RabbitMQ**
- Frontend: **Typescript, AngularJS, React+Redux, HTML, CSS/SASS**

Platform Engineer *Sqor Sports*

Jan 2016 – Jul 2016

- Built developer tools for a 30+ engineer team, wrote REST endpoints
- Set up load testing system for our AWS Lambdas w/ Locust, Seige, enabling us to cut AWS costs 50% through becoming aware of our bandwidth requirements
- Set up ELK logging stack for all production servers
- Wrote image differentiation tool to test a new image processing endpoint against legacy version
- **Python, NodeJS, Bash, AWS EC2, CloudFront, Lambda, ElasticSearch, Chef**

NLP Research Assistant *UC Santa Cruz*

Jul 2015 – Jan 2016

- Gathered data from various sources, integrated each into a MySQL database
- Wrote a script to process and store one year (53GB) of Reddit data
- Used machine learning techniques to discover features indicating sarcasm
- Built a pipeline for automatically streaming Twitter data for the 2016 SemEval Task 6: Detecting Stance in Tweets: <http://m-mitchell.com/NAACL-2016/SemEval/pdf/SemEval70.pdf>
- **Python, SQLAlchemy, NLTK, Numpy, Scikit, MySQL, Weka**

Education

University of California, Santa Cruz

Class of 2015

- B.A. in Computer Science (CS GPA: 3.87) *Graduated with Honors*
- B.A. in Art

Projects

set-solver

github.com/nicolashahn/set-solver

- Python program that solves the card game SET using OpenCV from an image of the cards

diffimg

github.com/nicolashahn/python-image-diff

- Python library to quantify and visualize the difference between two images

pi-helmet-cam

github.com/nicolashahn/pi-helmet-cam

- Raspberry Pi motorcycle helmet-mounted camera using Python, Bash

py-search-hn

github.com/nicolashahn/py-search-hn

- Execute Hacker News search queries using Python