

# Nicolas Hahn

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

2159 Beverley Rd.  
Brooklyn, NY 11226  
(408) 799-4714

## Experience

### Full-stack Web Developer *Distribute*

Jul 2016 - Apr 2018

- Features: Custom product pricing, customer contact system, image transform system, pagination, orders CSV export, email notification system
- Infrastructure: Transitioned frontend from Angular 1 to React, replaced Algolia search with Postgres FTS, created backend testing framework
- Backend: **Python, Flask, SQLAlchemy, MySQL, PostgreSQL, AWS EC2, RabbitMQ, Swagger**
- 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, allowing efficient search of months (dozens of gigabytes) of log files
- Wrote image differentiation tool to test our new vs. legacy image processing endpoints
- **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 (5GB) 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**

## Projects

### set-solver

[github.com/nicolashahn/set-solver](https://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](https://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](https://github.com/nicolashahn/pi-helmet-cam)

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

### py-search-hn

[github.com/nicolashahn/py-search-hn](https://github.com/nicolashahn/py-search-hn)

- Execute Hacker News search queries using Python

## Education

### Recurse Center

Summer 1 2018 Batch

- Attended a three-month, self-directed education retreat for programmers
- Studied neural nets, computer vision with OpenCV, lisp interpreters, Rust, Go, C, operating systems, Unix, cryptography, graphics, microcontroller systems

### University of California, Santa Cruz

Class of 2015

- B.A. in Computer Science (CS GPA: 3.87)
- B.A. in Art

## Hobbies

Reading, photography, illustration, travel, cooking, soccer, motorcycles, electronics