

Nicolas Hahn

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Experience

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 LOC 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, 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 (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**

Projects

set-solver github.com/nicolashahn/set-solver

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

diffing 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

Education

Recurse Center Summer 1 2018 Batch

- Attended a three-month, self-directed education retreat for programmers
- Studied neural nets, computer vision, lisp interpreters, 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**

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