Nicolas Hahn

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Brooklyn, NY (408)799-4714

Experience

Backend Software Engineer Percolate

Oct 2018 - Current

- Designed and implemented the backend for the Percolate Application Integration Framework
- Owner of our asset manager system: microservice that manages 40 million+ file assets
- Python, Go, Django, SQLAlchemy, MySQL, PostgreSQL, gRPC, Thrift, Docker

Participant Recurse Center (formerly Hacker School)

May 2018 - August 2018

- 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 (PICO-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, allowing efficient search of months (dozens of gigabytes) of log files
- 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

Projects

set-solver

pi-helmet-cam

github.com/nicolashahn/set-solver

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

github.com/nicolashahn/python-image-diff

Python library to quantify and visualize the difference between two images

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

University of California, Santa Cruz

Class of 2015

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