

# Nicolas Hahn

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## Professional Experience

**Full-stack Web Developer** *Distribute* Jul 2016 - Apr 2018

- Created features for a wholesale platform seeing millions in annual sales
- Developed for the full stack, from database revisions up to the CSS
- Transitioned frontend from Angular 1 to React
- Backend: **Python, Flask, SQLAlchemy, MySQL, PostgreSQL**
- Frontend: **Typescript, AngularJS, React+Redux, HTML, CSS**

**Platform Engineer** *Sqor Sports* Jan 2016 - Jul 2016

- Built tools for a 30+ engineer team, replaced legacy code, tested new code, server upkeep, and general AWS tasks
- Set up load testing system for testing our AWS Lambdas w/ Locust, EC2
- Set up ELK logging stack on all production servers
- Made image diffing Lambda to test our new image processing code vs. legacy
- **Python, NodeJS, Bash, Amazon Web Services**

**NLP Research Assistant** *UC Santa Cruz* Jul 2015 - Jan 2016

- Gathered, cleaned, organized Reddit, Twitter posts into MySQL database
- Used machine learning techniques to discover features which indicate sarcasm
- Built the data pipeline for 2016 SemEval Task 6: Detecting Stance in Tweets:  
<http://m-mitchell.com/NAACL-2016/SemEval/pdf/SemEval170.pdf>
- **Python (SQLAlchemy, NLTK, Numpy, Scikit), MySQL, Weka**

## Repositories

- set-solver** [github.com/nicolashahn/set-solver](https://github.com/nicolashahn/set-solver)
- 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
- py-search-hn** [github.com/nicolashahn/py-search-hn](https://github.com/nicolashahn/py-search-hn)
- Execute Hacker News search queries using Python

## Programming Skills

- Proficient in **Python, Javascript/Typescript, Bash, HTML, CSS, SQL**
- Experience with **Rust, Clojure, Java, NodeJS, Haskell, C, LaTeX**
- Databases: **MySQL, PostgreSQL, Firebase (NoSQL)**
- Web development: **Flask, AngularJS 1.x, React+Redux**
- Infrastructure: **Docker, Heroku, AWS, RabbitMQ**
- Computer vision: **OpenCV**
- Natural Language Processing (NLP), machine learning w/ **NLTK, Weka**
- Load testing using **Locust, Seige**
- Mobile development in **Android Studio, React Native**
- Preferred editor: **Vim**

## Education

**Recurse Center** Summer 1 2018 Batch

- Neural nets, OpenCV, Lisp, Rust, Go, C, OSs, cryptography

**University of California, Santa Cruz** Class of 2015

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

## Hobbies

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