

# Sam Havens

CTO

## CONTACT

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## SKILLS

**Web Development** Node.js, Express, React, Hapi, Flask  
**Machine Learning Engineering** Python, Jupyter, NLTK, scikit-learn, TensorFlow, Keras  
**SRE AWS** (Elastic Beanstalk, Lambda, RDS), NGINX, Docker, Jenkins  
**Other Programming Languages** Python, PHP, Elixir, Mathematica  
**Management/Executive** Growing engineering teams, performance & apm; career coaching, budgeting, pursuing investment

## WORK EXPERIENCE

2016-06-01 TILL TODAY

### CTO at [CarLabs](#):

I make sure the engineering team is functioning efficiently and realizing business goals. In addition to fundraising, growing and maintaining the team, and technical sales work, I still write software. I do analysis using machine learning tools like FastText, scikit-learn, and NLTK (my focus has been on NLP). I make front-ends with React and Redux and backends with Node.js (or Elixir or Python). I try to automate as much as possible with Jenkins, ElasticBeanstalk, Docker, and the like.

- | Grew tech team from 2 to 18 full-time members.
- | Frequently met with the board, investors, and clients.
- | Led transition to Agile/DevOps methodologies.
- | Fostered a culture of continuous improvement with technical "Lunch and Learns" on functional JavaScript, Elixir, and Machine Learning.
- | Ran the "San Fernando Valley Practical Deep Learning For Coders" Meetup.

2014-04-01 TILL 2016-05-31

### Full Stack Developer at [CarLabs](#):

I was all over the stack: backend (Node.js, PHP), front-end (React, Redux), and design (Sketch).

- | Improved front-end build process to use Webpack and ES2015.
- | Designed and built a mobile web app using Node.js, React, and Webpack.
- | Pitched product design which became the focus of the company.

2013-04-01 TILL 2014-04-01

### Full Stack Developer at [RevMaker](#):

I wrote PHP scripts for data processing, lead validation, and submitting leads in real time. I worked on an MVC web app, written in Yii, for lead generation, and did some front-end work, mainly CSS, jQuery, and d3.js.

- | Built a lead-scrubbing tool using PHP and MySQL that scored leads using a statistical model.
- | Made a research tool using Yii, MySQL, jQuery and d3.js that updates charts in realtime in response to user input.

2014-05-01 TILL TODAY

### Board Member at [Topanga Mountain School](#):

As a board member, I work to increase employee retention, automate processes for teachers and administrators, and find new sources of funding for innovative programs. Previously, I was a full-time math and science teacher from 2007-2013. I trained new hires, designed curricula, and constantly improved my methods by incorporating new strategies and technologies.

| Introduced new technology early: Khan Academy in 2009, and Duolingo in 2012.

| Ran the programming club, which regularly had attendance of over 10% of the student body.

| Brought programming into the math program.

| Modernized the focus of the statistics unit by utilizing Google Sheets and Tuva Labs.

| Researched and implemented new employee benefits program.

## EDUCATION

2011-08-01 TILL 2013-05-21

### California State University-Northridge

| Master of Science: *Mathematics (4.0)*

2002-09-01 TILL 2006-06-15

### University of California, Santa Barbara

| Bachelor's Degree: *Physics (3.1)*

## AWARDS

BIANCHI OUTSTANDING GRADUATE  
STUDENT

2012-05-21

### California State University Northridge

| Awarded to one graduate student per year in the College of Science for outstanding academic and research performance.

IRIS FELLOW

2012-09-01

### Interdisciplinary Research Institute for the Sciences at CSUN

| For research in mathematical physics.

## LANGUAGES

English	Native Speaker
Spanish	Intermediate
French	Beginner