

Experience

Yelp, Data Mining & Search Intern.

September 2017 - January 2018

- Optimized Yelp Business & User review search; worked with Yelp's Elastic Search instances and cluster distribution.
- Interfaced with Distributed Systems & Content Understanding teams to re-distribute over 100M+ reviews across.
- Recency of results improved by 40%. Search times reduced from 2 seconds to under 0.5s.

Mailchimp, Site Reliability Engineering Intern.

June 2017 - September 2017

- Built a realtime notification system for Mailchimp's deployment pipeline.
- Notifications captured shipment failures; errors captured across Travis-CI, Docker & Github environments.
- Shipment failure frequency visualized on top of Mailchimp's Graphite clusters.
- Wrote a automation script for Mailchimp's user-data-extraction tools.

Gradfire, Co-Founder & Application Engineer.

June 2015 - August 2017

- Crowdfund students transcripts for effective higher-education course selection.
- 5K+ registered students & more than 3M+ visits.
- PySpark used for personalized course curation, ReactJS frontend, PSQL/Flask backend & middleware.
- Joined the Citris Foundry Accelerator at Haas School of Business, UC Berkeley.

Bitglass, Security Engineering Intern.

June 2016 - September 2016

- Contributed to a CASB (Cloud Access Security Broker) solution for all custom-developed Salesforce applications.
- Identified API footprints to effectively decrypt and encrypt client data.

CK-12 Foundation, Product Engineering Intern.

June 2010 - June 2014

- Designed the 1.0 iOS application via Illustrator.
- Developed an Android application to gamify their educational content.
- Built a suite of QA tools to simplify resource citations for content creators and authors.

Highlighted Projects

Wolfoo, solve any math problem (arithmetic to multivariable calculus) via SMS.

- Twilio-Flask supported routes, 20 mathematical services built on top of Wolfram Cloud API.

Ballmetric, stream any play from the NBA, organized by player, shot type and distance.

- Ruby on Rails (app), PSQL (db), ReactJS (frontend) Ruby-resque catalogued private NBA streams, cached with Redis

Dojo, social content clustered by location & interest.

- Objective-C & Swift for iOS, Django & React full web-stack, PHP backbone for API.

Rap.ai, generate new songs for any artist.

- Markov models used to identify lyrical patterns. Py-pronounce generates rhymes, ReactJS for autocomplete search.

Shape Language, shape detection on Synaptics touch board (HackDavis winner).

- Python captured touch gestures; OpenCV interprets coordinate datasets; SciKitLearn added for shape learning.

Education

- Bachelors of Science in Computer Science at the University of California, Davis — expected to graduate 2018.
- Eagle Scout Rank of the Boy Scouts of America

Tools & Languages

Ruby · Rails · Resque · Django/Flask · React · Backbone · Node · Webpack · Babel · TravisCL · Jenkins · Phan · SQL · PSQL · MySQL · PHP · Phake/Hamcrest Java · C/C++ · Sketch · Git · AI · AWS · Jekyll · Python · Elastic Search