

Experience

Google, Software Engineering Intern.

June 2018 - September 2018

- I. Joined the Google Hardware data services team; responsible for building the Seasonal Savings assistant for Nest devices. The service promotes more affordable energy bills while ensuring comfort in your household.
- II. Deliverable was an automation framework that ensured all Nest devices in a household would shift device state to oblige by energy consumption guidelines.
- III. Rewrote Nest's network handler framework, previously in Scala, to Google's legal network language, Java.

Yelp, Data Mining & Search Intern.

September 2017 - January 2018

- I. Optimized Yelp Business & User review search; worked with Yelp's Elastic Search instances and cluster distribution.
- II. Interfaced with Distributed Systems & Content Understanding teams to re-distribute over 100M+ reviews across.
- III. 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

- I. 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.
- II. Wrote an automation script for Mailchimp's user-data-extraction tools.

Gradfire, Co-Founder & Application Engineer.

June 2015 - August 2017

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

Bitglass, Security Engineering Intern.

June 2016 - September 2016

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

Highlighted Projects

github.com/minupalaniappan

Wolfio, solve any math problem, from arithmetic to multivariable calculus, via SMS.

- I. 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.

- I. Ruby on Rails (app), PSQl (db), ReactJS (frontend) Rubyresque catalogued private NBA streams, cached with Redis.

Dojo, social content clustered by location & interest.

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

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

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

Education

- I. Bachelors of Science in Computer Science at the University of California, Davis — expected to graduate 2018.
- II. Pursuing an Integrated Masters in Computer Science at the University of California, Davis — TBD.
- III. Eagle Scout Rank of the Boy Scouts of America