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## OBJECTIVE

Seeking opportunities to build world-class teams, delivering incredible user experiences and reliable architectures. With a particular emphasis on Consumer and Retail applications.

Profile: Experienced full-stack software developer and team leader; enhanced by natural language modeling and cloud agnostic work-experience. Background in non-technical pillars of business, bringing Technical Marketing and Entrepreneurship skills to represent ideas and move products.

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## PROFESSIONAL EXPERIENCE

### Engineering Lead

**Sept 2018 - Present**

Steady Health

San Francisco, California

- Joined as first hire, responsible for hiring, company execution and delivery. Doubled Engineering headcount.
- Going from proof-of-concept to our MVP App and Backend, in 2017. Coming out of stealth in Q1 2018.
- Grown business from closed beta to 100s paying members; physical clinic in San Francisco, CA
- Conducted hiring, onboardings, mentoring and 1:1 to accelerate engineering productivity
- Developed Complete Telemedicine Solution; Messaging, Patient Management, Patient Relationship, Health Records, Stream Processing, Billing, Calendaring, Support
- Custom React Apps released to iOS and Android. Integrations with Medical Device data and including HealthKit, Google Health support
- Advocacy studies with Clinical Teams, to build product goals and solicit product feedback
- Research initiatives into Data Science and Artificial Pancreas Research. Attended ADA, D-Data conferences
- Integrations with Google Cloud, Salesforce, Stripe, HealthKit, Sendbird, Twilio, IntakeQ, Sendgrid

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### Founder

**May 2017 - Sept 2018**

AlohaMD Telehealth Services (talent acquisition to Steady Health)

San Francisco, California

Started and grew a consultancy team covering everything from customized mobile apps and integration services around Applied Telemedicine and Patient Relationship Management.

*(Partners: Amazon Cloud, Google Cloud, Twilio, Salesforce HealthCloud, Epic EMR, Elation EMR)*

Robin Health & TenorAI - Scribe Voice-Assistant

- Developed Business Associate Agreements and Consultation Contracts to service Healthcare Clinics and Startup customers
- Whiteboard Trainings on state-of-the-art AI models in the wild, brainstorm new applications into business units
- Custom Doctor-Patient Messaging with Push Notifications to a existing Mobile Application

Large Nurseline Call Center

- C-suite Strategy meetings to define priorities, timelines to figure out growth
  - Call Center integration into Salesforce HealthCloud with Speech Recognition for auto-populated entries (Watson)
  - Defined Business Logic in Salesforce Process Builder; Reminder Emails, Doctor's Notes, Appointment Follow Up
  - Automated triage and ranking for Calling Patients, with personalized Today screen using Learn to Rank model
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**Machine Learning Engineer****Dec 2015 - May 2017**

First Opinion, Inc. (acq. by CurAI)

San Francisco, California

Lead natural language processing team for early-stage Telemedicine product. Built end-to-end NLP pipeline Improved efficiency and turn-around time for medical staff and provided a better experience to our Customers.

Innovation (Technologies Used: XGBoost, Keras, Scikit-Learn, NLTK)

*Models Trained: Dialogue Acts, Intent Tagging, Predicted Categories, Predicted Abuse, Premium Upgrade*

- Trained semi-supervised models over labeled Customer chat conversations and Doctors' notes
- Developed efficient LSA-based Word Vectorizer, dimensional reduction and clustering pipeline. Applied to prediction of medical severity; integrated into production to triage and prioritize feeds
- Developed Flagging system using Predicted Abuse, Predicted Premium Upgrade to alert Moderators
- Built Sponsored Messages Framework, AdWords-like tool to include advertisers' content into the message stream (Survey, Referral links). Used Customer Intent, Question Tagging, Dialogue Acts to improve click-rate
- Developed an Auto-summarization feature that captures key phrases from chat log into an Interaction summary; would be trained by historic summaries (see Reuters Summarization dataset)
- Tooling to extract keywords and effective responses for frequent patient queries

Engineering (Technologies Used: Python2/3, Backbone.js, Marionette.js, WebSocket)

- Launched a Customer WebApp, porting features from existing codebase. Now doing comparable volume of business to our dedicated iOS App. Complete with Payments and Video Messaging.
- Developed new features: offline saving of Medical Profile, tracking a Customer post-Consultation, auto-complete Doctor response

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**NLP / Full Stack Engineer****Feb 2015 - Dec 2015**

Argo Technologies Inc. (acquired by Tableau Software Inc.)

Palo Alto, California

Developed NLP-enabled business intelligence software platform using streaming data from SaaS providers, allowing non-data scientists to ask meaningful questions on the health of their business

Technologies Golang, AngularJS, OAuth Integration (Zendesk, Jira, Hubspot, Phabricator)

- Implemented proprietary fork of CYK algorithm; advisor: computational-linguist Alex Djalali, Ph.D.
- Developed Natural Language Parsing Codebase to accept People, Places, Events question concepts, joining records across data pools. Became the very successful Knowledge Graph Platform.
- Developed SQL transpiler, taking NLP-modeled questions from Customer and generates complete SQL queries
- Developed Data Mining features for unstructured data, JSON-marshaled API Streams and columnar data
- Developed Browser-side Visualization library on HTML5 Canvas; including Server-side serialization code

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**Technical Marketing Engineer****Nov 2014 - Feb 2015**

Cisco Systems Inc., Marketing; Enterprise Routing

San Jose, California

Represented Cisco at Customer Engagements, Press Events and Trade Shows. Provided technical expertise with the roll out of a brand-new hardware portfolio. Giving extensive background on Cisco differentiation to Partners

- Managed about 100MM refresh and Greenfield deals for clients across all Cisco's key verticals: Government, K-12, Retail, Mid-size businesses and Service Provider
  - Lead trainings and customer showcases to evangelize new product lines at Tradeshows and Product Engagements (Cisco Live SF/Cancun/Europe, Mobile World Congress Europe, Interop NY)
  - Develop Whitepapers, VOD Content, Proof-of-Concept presentations, ordering guides and other Collateral
  - Instrumental in regaining Gartner's Leaders quadrant with distinction for Vision and Execution against our competitors, with our new routing architecture with Akamai Partnership
  - Presented at Executive Briefings for mid-size to Fortune 500s, delivering Cisco's value to their BD Goals
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**Sr. Software Engineer****Jan 2011 - Nov 2014**

Cisco Systems Inc., Internet of Things; Adv. Solutions

San Jose, California

Bring up of Cisco's Connected Cars Router and Cloud management Portal, designed to aggregate Client Vehicle data, connect Fleet vehicles and generate end-to-end data analytics.

*Technologies Used: Angular, MongoDB, Python, R, NeoCharts, Linux EBTables*

- Designed multi-tenant data warehousing solution for data streams generated by in-vehicle sensors
- Developed Customer Dashboard for Service interval tracking, manufacturer events and data analytics
- Technical lead for GENIVI ISO compliance and liaison with service providers and OEM manufacturers
- Developed App Store to enable digital distribution of third-party apps on our car platform. Developed an SDK environment (using Yocto Linux), enabling developers to safely interact with the Vehicle

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**Undergraduate Researcher****May 2007 - Jun 2008**

UC Davis, Department of Political Science

San Jose, California

Worked on Microsoft .NET application that analyzed International Relations dataset using novel Social Graph algorithms. Advisor: Professor Zeev Maoz

- Optimized matrix manipulation modules like basic Clique Extraction, Analysis of Cliques and Network Interdependencies
- Optimized data structures to handle large datasets, expandable to contain stepwise output for reports

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**ACCOMPLISHMENTS**

- 2017 Medium.com Guest Writer for *Chatbot Life* featured publication
- 2017 True University Graduate, Design and Growth track
- 2016 EasyJS Open-source Committee contributor
- 2015 Gartner's Leaders Quadrant for distinction for Vision and Execution on Cisco IWAN Solution
- 2013 Hackathon Winner for Communication between AirGapped devices
- Investor for Vacation Rental startup, Series-A backed and doing 10K bookings/month
- Contestant for Netflix Recommendation Prize, implemented a superior SVD-based approach utilizing OpenCL technologies

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**EDUCATION**

- BS Computer Science and Engineering, *University of California*, Davis, California
- Cisco IOS Development trainings, Global Communications training, Marketing trainings
- Scikit-Learn framework accreditation, XGBoost and Deep Neural Networks Kaggle badges

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**INTERESTS**

Avid traveler, fixing motorcycles, playing the guitar, autonomous cars, sci-fi, archeology, distributed computing, developing on Arduino/ARM, FCC certified in Satellite Radio communications

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