

## EDUCATION

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- **BASIS Scottsdale High School** Scottsdale, AZ  
*GPA: 3.96 (Weighted: 4.86)* *Aug. 2012 – Present*
  - **Exams/Scores:** 15 AP Exams with score of 5, SAT (1560 / 1600), SAT Math Level II (800/800), SAT Chemistry (770/800)
  - **Clubs:** Varsity Speech and Debate Team (Captain), Kiva Entrepreneurship and Microfinance Society (Founder), Science National Honor Society (President), National Junior Honor Society (President), National Honor Society
  - **School/Academic Awards:** BASIS Leadership Award (2017), AP Economics Student of the Year (2016), National AP Scholar (2016)

## RESEARCH EXPERIENCE

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- **MacCarthy Lab, Stony Brook University** Stony Brook, NY  
*Research Intern, Simons Fellow* *Summer 2017*
  - **NucleoVec:** Developed framework to model stochastic activity of the gene editing protein AiD in B-cells
  - **Natural Language Processing:** Applied word-vector space models (GloVe, word2vec) to nucleotide sequences to create vector representations of sequence motifs
- **Systems Imagination Inc.** Scottsdale, AZ  
*Machine Learning Intern* *September 2016 - May 2017*
  - **Hypergraph Modeling:** Applied hypergraph modeling to build an integrated 'omics data exploration tool of various cancer data for researchers
  - **PatternSeq:** Devised statistical search algorithms for improving existing Teleseq algorithm.
- **Quackenbush Lab, Dana-Farber Cancer Institute** Boston, MA  
*Research Intern* *Summer 2016*
  - **Gene Regulatory Network Analysis:** Assisted in the development of ALPACA, a differential community analysis algorithm for gene regulatory networks; applied ALPACA to angiogenic ovarian cancer
  - **Survivorship Modeling:** Used machine learning to model clinical outcomes based on genetic factors determined by ALPACA

## PROFESSIONAL EXPERIENCE

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- **Echelon Labs** *May 2017- Present*  
*Cofounder, Advisor*
  - **Split-network Architecture:** Designed and implemented neural network algorithm for data-intensive operations
  - **Product Management:** Ideated product from my previous research; worked alongside engineering team and business development to create marketable product for enterprise applications
- **Allbeat** Cambridge, MA  
*Cofounder, CEO* *June 2015 - Present*
  - **Product Development:** Worked alongside engineers to build beta products for web and mobile interfaces; designed the UI
  - **Business Development:** Established partnerships with record labels and artists, onboarding content and brand ambassadors; led market research
- **Freelance Work** Phoenix, AZ  
*Web Developer, Graphic Designer* *2014-Present*
  - **Rebranding:** Led rebranding projects across various industries, focusing on smooth yet contemporary transitions
  - **Web Development:** Built custom Wordpress websites and web applications for small businesses and startups

## COMMUNITY EXPERIENCE

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- **Refugee Code Academy** Los Angeles, CA / Dar es Salaam, Tanzania  
*Cofounder, Head of Partnerships and Curriculum* 2016- Present
  - **Partnerships:** Leading partnerships with local innovation hubs, startups, and international NGOs; collaborated extensively with the UNHCR; formulated fundraising strategies for small-sized and corporate donors
  - **Curriculum:** Designing educational strategies and content delivery mechanisms, such as virtual reality and off-line digital delivery; compiled different open-sourced curriculums to tailor for software engineering market fit
- **YouthCorp** Cambridge, MA  
*Board Member* 2015 - Present
  - **Product Design:** Worked extensively with engineering team to design a web product for entrepreneurship curriculum delivery
  - **Advisory:** Assisted in the development of an educational pipeline for student-researchers to bring their projects to the market

## PROJECTS

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- **Companion Chat:** Educational chatbot for sexual assault/harassment victims; collaborated extensively with NGOs, educational institutions, and professionals in the field
- **Sphere:** image-based mobile money transfer platform that uses real-time facial detection and image recognition through computer vision algorithms to identify people or organizations; built at Pennapps XV
- **Breatheasy:** A scalable, cloud based preventive health care solution which interfaces fitness trackers, smartphones, and the cloud with a powerful machine learning algorithm to predict asthma attacks realtime
- **Graintracker:** Mobile inventory management system for food bank volunteers; built at Great Arizona Code Challenge

## AWARDS

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- **Semifinalist at 2016 Siemens Competition in Math, Science & Technology:** Top 500 out of 1600+ entries; received for original research conducted at Dana-Farber Cancer Institute
- **2017 Three Dot Dash Global Teen Leader:** All-expense paid program awarded by the We Are Family foundation; recognized for social work with the Refugee Code Academy
- **2017 Conrad Innovation Challenge National Finalist:** Awarded for BeachBot, an autonomous beach-cleaning robot
- **Honorable Mention (Top 20) at 2017 Moody's Math Modeling Competition:** Awarded for modeling the effect of rising sea levels on our national parks
- **National Qualifier at 2017 Arizona Junior Sciences and Humanities Symposium:** Awarded for research conducted at Dana-Farber Cancer Institute

## PROGRAMMING SKILLS

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- **Languages:** Java, C++, Python, NodeJS, R, HTML/CSS
- **Technologies:** AWS, Firebase, SciPy/NumPy, Theano, Encog