

WORK EXPERIENCE

GOOGLE	<p>Senior Product Technology Manager 04 / 2017 - Present</p> <p><i>Display Advertising Platforms (Display & Video 360 and Google Ad Manager)</i></p> <ul style="list-style-type: none"> Engage with Product Management and Engineering teams early in product lifecycle to ensure planned changes to Google's display advertising platforms meet the expectations & needs of our users. Assembled a team and lead the development of an internal tool (Espresso) from concept to launch as a 20% initiative. Espresso enables scaled cross-organizational communication for upcoming product launches/changes and was sanctioned as an official Google tool in August 2019. Earned rating of "Exceeds Expectations" or "Strongly Exceeds Expectations" for all performance cycles in last two years. Received promotion from Technology Manager to Senior Technology Manager in October 2019.
LEGAL HERO	<p>Co-founder & Director of Engineering 09 / 2014 - 03 / 2017</p> <p><i>Legal Hero provides access to top-tier legal consultation for start-ups and small-businesses</i></p> <ul style="list-style-type: none"> Designed and developed full-stack web platform, built a REST API to serve AngularJS frontend and deployed background services for scalable integration with third party tools. Deployment and configuration was managed by Chef on AWS. Built and launched platform from concept to a revenue making product in less than two months time. Led meetings and planning for development of product relating to company strategy. Maintained net promoter score (NPS) of 85 and annual revenue increased from \$0 to over \$400,000 in one year.
ANYONEGAME, INC.	<p>Co-founder & Chief Technology Officer 02 / 2013 - 02 / 2014</p> <p><i>AnyoneGame is a social mobile gaming company backed by Lerer Hippeau Ventures, Tribeca Venture Partners, M8 Capital, and Eniac Ventures</i></p> <ul style="list-style-type: none"> Led team development (four engineers) from product concept to launch. Responsibilities included hiring, managing code reviews, establishing development principles, maintaining software reliability across release cycles. App received consistent reviews of 4.5 stars with over 100,000 downloads in the month following release. Designed, developed, tested, and deployed REST API (Ruby on Rails) serving both web and mobile (iOS & Android) frontends. API response times were time-critical and consistently completed in less than 35 milliseconds. Managed development operations (dev-ops) for a multi-server architecture running Ruby on Rails, MySQL, Redis, HAProxy and Sphinx running on AWS.
COLUMBIA UNIVERSITY	<p>Ph.D. Candidate, Bioelectronic Systems Lab 08 / 2010 - 05 / 2013</p> <p><i>The Bioelectronic Systems Lab is a multidisciplinary research group pursuing novel applications of traditional electronics in the areas of chemistry and biology.</i></p> <ul style="list-style-type: none"> Designed and carried out experiments to study electrical properties of single-walled carbon nanotubes (SW-CNTs) in biological environments. Assisted in managing and maintaining the lab's self-hosted server network responsible for running simulations and data analysis.
EDUCATION	<p>Columbia University in the City of New York 2010 - 2011</p> <p>Master of Science (M.S.), Electrical Engineering 3.8 GPA</p> <p>University of California, Los Angeles 2007 - 2010</p> <p>Bachelor of Science (B.S.), Electrical Engineering 3.4 GPA</p>
PROJECTS	<p>Founder & Creator 04 / 2012 - Present</p> <p>http://www.physicsacademy.com/</p> <p>Physics Academy's mission is to make learning physics fun and accessible to anyone in the world by developing new technologies for interactive education.</p> <p>Founder & Creator 04 / 2012 - Present</p> <p>https://circuitlab.herokuapp.com/</p> <p>Circuit Box is an interactive circuit simulator written in JavaScript on Node.js. Using numerical solvers (Euler's method), it can compute and render voltages and currents for complex analog and digital circuits at multiple frames per second.</p>
PATENTS	<p>Compact Automated Semen Analysis Platform using Lens-Free On-Chip Microscopy 12 / 2011</p> <p>patents.google.com/patent/US8842901B2</p> <p>A compact and light-weight lens-free platform to conduct automated semen analysis utilizing holographic on-chip imaging without lenses, lasers or other bulky optical components.</p>
PUBLICATIONS	<p>High-throughput lens-free blood analysis on a chip 05 / 2010</p> <p><i>Analytical Chemistry</i> ncbi.nlm.nih.gov/pubmed/20450181</p>

AWARDS &
HONORS

Lensfree Holographic Imaging for On-chip Cytometry and Diagnostics **12 / 2008**
Lab on a Chip ncbi.nlm.nih.gov/pubmed/19255659

High-throughput lensfree imaging and characterization of a heterogeneous cell solution on a chip **09 / 2008**
Biotechnology and Bioengineering ncbi.nlm.nih.gov/pubmed/18853435

Columbia Venture Competition (CVC) Finalist **2012**
The Columbia Venture Competition is an annual competition in which students and alumni compete for \$100,000 in seed capital. 8 finalists were selected out of over 70 applications.

NSF Graduate Research Fellowship (GRFP) **2011**
The NSF GRFP is a nationally recognized fellowship supporting graduate research in science and engineering. It is one of the oldest and most prestigious fellowships in the United States with 2,000 awards granted out of 12,000 applications in 2011.