

Education

- **Columbia University, School of Engineering and Applied Science**, New York, NY, May 2017
 - BS Computer Science, GPA 3.1
 - CP Davis Scholar
 - Relevant Coursework: Operating Systems, Programming Languages and Translators, Computer Science Theory, Advanced Programming, Fundamentals of Computer Systems, Data Structures and Algorithms, Discrete Math, Electrical Engineering
- **Lakehill Preparatory School** - graduated May 2013
 - National Merit Scholar
 - Angie Baggett Award for Most Outstanding Debater; YMCA Texas State Youth and Government Conference 2013
 - Computer Science Gold Medal Award, 2012, 2013

Work Experience

- BNY Mellon – **Software Engineering Intern** (New York, NY), May 2015 – August 2015
 - Built automation software on top of Tomcat and Maven, designed to run on BNY Mellon proprietary cloud platform; increased ease of access to open source software
 - Discovered and reported security hole in email system
- Eats – **Developer** (New York, NY), May 2014 – September 2015
 - Developed iOS app that, in real-time, notifies restaurant proximity, details, ratings, and suggests alternatives, as part of an independent project
- Girards Law Firm – **Developer** (Dallas, TX), June 2014 – December 2014
 - Designed and developed iOS app to assist attorneys and clients, which provided ease of access to thousands of legal documents, and provided real time evidence documenting capability
- Heritage Rose Foundation – **Developer** (New York, NY), August 2011 – June 2012
 - Designed and developed an iOS walking tour app for the Heritage Rose District of New York City
 - June 9th, 2012 was declared Jacob Graff Day in Manhattan by then borough president Scott Stringer

Research

- KVM/ARM Nested Virtualization, January 2016 - Present
 - Designing and implementing nested virtualization (running one virtual machine within another) with the KVM hypervisor for the ARM platform

Additional Experience

- Columbia CS Department – **Teaching Assistant** (New York, NY), August 2015 – Present
 - Advanced Programming, August 2015 - December 2015
 - Held weekly office hours
 - Organized class hackathon and conducted employer outreach alongside other TAs
 - Programming Languages and Translators, January 2016 - Present
 - Held weekly office hours
 - Advised several teams on their compiler implementations
- Facebook **Global Hackathon**
 - Menlo Park, CA, November 2013
 - Invited to attend after winning regional hackathon in New York
 - Developed sports team organization app called GoSport
 - New York, NY, October 2013
 - Team won for developing *Preblur*, an interactive discussion-based web platform that facilitates creating groups to attend concerts

Technical Skills

- Languages – C, C++, Objective C, Java, Python, OCaml, HTML/JavaScript/CSS, MATLAB
- Frameworks/APIs – Cocoa, Meteor, AngularJS, Yelp API, FourSquare API
- Libraries – GPUImage (iOS Graphics Library), jQuery
- Software – Unix/Bash, Git, Xcode, Eclipse, Tomcat, Maven