# Vighnesh Sachidananda

vighnesh@sachidananda.com | (301) 646-8424

## Work Experience

**Kahuna**
Mobile Developer
Bain Capital Ventures StartUp Academy
*Mountain View CA, Dec 2012 – Jan 2013*

Building iOS and Android SDKs and native application at an early stage mobile analytics startup. Created iOS and Android static libraries that implement HTTP POST, batching, network reachability awareness, and data persistence (Core Data & SQLite). iOS SDK in production and currently used by customers.

**Goldman Sachs**
Summer Analyst
Dynamic Computing Group
*New York NY, Jun 2012 – Aug 2012*

Designed, developed, and put into production a web application to monitor and proactively resize underutilized Virtual Machines for Goldman Sachs' Private Cloud. Analyzed economics and adoption strategies of cloud computing. Tested UX, HCI and User Acceptance. Applied Sencha ExtJS 4, Ajax, HTML and CSS front-end. Used SQL and Hibernate to create back-end.

**NASA Goddard Space Flight Center**
Program Manager Intern
Software Integration and Visualization
*Greenbelt MD, Aug 2009 – Jan 2011*

Directed design of data visualization and user interface for SaaS cloud computing platform and supercomputing networks in Climate@Home endeavor. Analyzed metrics, examined logs, and engaged in beta tests to lead rapid prototyping of user interface. Communicated with NASA managers to improve software user interface and data visualization standards.

**NASA Goddard Space Flight Center**
Software Engineering Intern
*Greenbelt MD, Jun 2008 – Aug 2009*

Performed "Big Data" analytics through Fortran and Unix scripting on NASA supercomputers. Created data visualizations and developed algorithms to run climate models 200% more efficiently. Presented findings in formal papers and presentations.

**U.S. National Security Agency**
Cybersecurity Research Assistant
*College Park MD, Sep 2012 – Dec 2012*

Researched hardware and software vulnerabilities of Android OS, NFC and Cloud Computing. Published and provided the NSA with a white paper detailing the current state of mobile cybersecurity and recommendations based on previous research.

**Bechtel Corporation**
Six Sigma Strategy Intern
*Frederick MD, Jan 2012 – May 2012*

Utilized Lean and Six Sigma DMAIC methodology to optimize engineering processes and examine impact on revenue. Implemented ANOVA, Multivariate Regression and Pareto Analysis. Awarded Six Sigma Green Belt in May 2012.

## Education

**University of Maryland**
B.S. Mechanical Engineering (Honors)
*College Park MD, Expected: May 2013*

Minor in Technology Entrepreneurship
President's and A. James Clark School of Engineering Merit Scholarships
GPA: 3.71/4.0, SAT: 99th Percentile, Graduate Coursework: Program Management (ENME808Q)

## Leadership Experience

**Silicon Valley Innovation Practicum**
Student Entrepreneur
*San Francisco CA, May 2012*

Awarded scholarship to observe disruptive technological innovation and startup culture in the Silicon Valley. Toured large-scale tech companies, start-ups, and venture capital firms including Google, Facebook, Amazon Lab 126, Pixar, Cisco, Greylock Partners, and the Mayfield Fund.

**A. James Clark School of Engineering**
Teaching Fellow
*College Park MD, Spring '11 – Fall '11*

Selected to assist in teaching three engineering courses: statics, dynamics, and thermodynamics (ENES102, ENES221, ENME232) to more than 150 undergraduate students. Taught discussions, conducted exam reviews and held office hours.

**Hinman CEOs Program**
Student Entrepreneur
*College Park MD, Spring '11 – Present*

Create financial models, business plans and investor presentations for software start-up ventures. Take courses in Entrepreneurial Opportunity Analysis, Design Thinking, Business Model Generation, and High-Tech Marketing.

## Personal Projects

**Allied for Life**
*September 2012 - Current*

Creating an iOS application that displays natural disasters currently occurring in the world with options to donate. Using MapKit, Twitter Search, and PayPal APIs.

**When Works**
*September 2012*

Worked collaboratively to create a Facebook event scheduling web application. Won 3rd place at the Facebook New York Hackathon 2012. (www.whenworksapp.com)

## Technical Skills

**Mobile:** iOS and Android, Objective-C, XCode 4, Eclipse ADT
**Programming:** Java, Python, C, Fortran, Matlab, Unix
**Web:** JavaScript, JSP, Servlets, XML, jQuery, ExtJS 4, Ajax, HTML5, CSS
**Database:** SQL, Aqua Data Studio, Hibernate Java Persistence
**UI/UX:** Balsamiq, Mockingbird, Adobe CS5, Gimp

## Certifications and Coursework

**Certifications:** NASA – Information Technology, Structured Fortran 77, Satellite Engineering and Design; UMD - Six Sigma Green Belt
**Relevant Coursework:** Lean Six Sigma Strategy and Methods, Design Thinking, Advanced Entrepreneurship Opportunity Analysis, Marketing High-Technology Products, Product Engineering