

# Varun Sayal

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## CONTACT INFORMATION

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**Github:** <https://github.com/sayalvarun>

## EDUCATION

**Stony Brook University**, Stony Brook, NY.  
*Bachelor of Science with Honors, Computer Science*  
*Master of Science, Computer Science*

**GPA(3.81/4.0)**  
Graduation: **May 2016**  
Expected Graduation: **May 2017**

## PERSONAL PROJECTS

**Roam: Data-Free Navigation Android App**  
**1st Place at HackNY**

(September 2015)

- Implemented, as a Hackathon Project, an android app that provides navigation directions using our data-free protocol (Over sms)
- Developed the application side SMS protocol that would communicate with our server in order to receive and display navigation instructions

*Relevant Skills Used:* **Java, Android SDK, Python (Flask), Twilio API, XML**

**Rendezvous: Friend Finding Data-Free iPhone App**

(September 2015)

- Created an iPhone app to allow users within a building, or other general venue space, to find each other without making use of any cellular data.
- Implemented the application side logic to find the closest friendly app user using BLE (Bluetooth Light Energy) and iBeacons

*Relevant Skills Used:* **Swift, Facebook SDK, iBeacons**

## PRIOR EXPERIENCE

**Software Development Intern - 1010data**

(June 2015 – August 2015)

- Designed, developed and tested a web application to automatically graph a network of nodes given a set of edges.
- Implemented Google-Maps-like drag and move functionality for the same web application for better graph analysis.
- Extended functionality provided by Mathematica within the web app by allowing for orphaned graph components and partial coordinate assignments.

*Relevant Skills Used:* **K, Mathematica, Javascript, JQuery, SVN**

**IT Intern - The Travelers Insurance**

(June 2014 – August 2014)

- Developed a .Net web application to manage the department Q/A devices, saving department hundreds on misplaced device costs.
- Designed and Implemented a system to leverage QR codes to greatly improve device loaning efficiency

*Relevant Skills Used:* **.Net, JQuery, C#, Agile, HTML, CSS, Javascript, Bootstrap, SVN**

**IT Intern - American National Standards Institute (ANSI)**

(June 2013 – August 2013)

- Completed analysis of data migration project through the use of Dell Migration Manger.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C, PHP, MYSQL, HTML/CSS/Javascript/JQuery, K  
**Tools:** Eclipse, GIT, SVN, Twitter API, Alchemy API, Microsoft Sharepoint, L<sup>A</sup>T<sub>E</sub>X

## AWARDS AND ACHIEVEMENTS

**Full Presidential Scholarship** to Stony Brook University  
**Winner of HackNY** for Android Application: *Roam*  
**Acceptance** into *Honors Program for Computer Science*  
**President** of Stony Brook responsible electronic recycling club: *RecycleIT*