

Varun Sayal

CONTACT INFORMATION

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EDUCATION

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

BS/MS GPA: (3.82/4.0)
(May 2017)
(May 2016)

PRIOR EXPERIENCE

Apple - Software Engineering Intern
Cupertino, CA

(June 2016 – August 2016)

- Developed software and designed architecture for the Human Interface Device (HID) team at Apple
- Designed a multi-threaded Server-Client architecture to send and receive HID data over a network
- Prototyped an application that would allow global mouse and keyboard transfer across multiple Mac's

Relevant Skills Used: **Objective-C, C, Python, Git**

1010data - Software Development Intern
New York, NY

(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**

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**

RESEARCH PROJECTS

Chrome Ad Crawler - Mobile Malware Data Harvesting

(September 2015 - May 2016)

- Developed a website crawler designed to find, collect data on, and identify malicious advertisements
- Performed initial analysis on collected data to identify features that could be malicious

ACADEMIC AWARDS

Full Presidential Scholarship to Stony Brook University
Acceptance into *Honors Program for Computer Science*

President of Stony Brook responsible electronic recycling club: **RecycleIT**