Shreyas Hirday

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Education & Skills

- Rutgers University **09/13 – 05/17**
    - Pursuing an Electrical and Computer Engineering degree with a minor in Computer Science
    - **Relevant Courses**: Intro to Computers for Engineers (MATLAB), AP Computer Science (Java), Algorithms 1 (Coursera), Digital Logic Design, Solar Cell Design And Processing, Programming Methodology I (C++), Computer Architecture and Assembly (Assembly Language), Programming Methodology II (Data Structures), Network Centric Programming, Intro to Computer Systems, Software Engineering, Principles of Information & Data Management, Intro to Artificial Intelligence
    - **Skills:** Java; Android; iOS, Objective-C; C++; Node.js; Python; Arduino; Bash; Git; Go-lang,Flask,Unix; Spring; MVC, AWS
- **Awards and Honors**: Dean's List for First and Third semesters, selected for Aresty Summer Science project out of 17 candidates for Computer Science project, Scarlet Scholarship for Rutgers University, Accepted into and Attended Penn Apps Winter 2015

Experience

Software Development Engineering Intern at Amazon (https://www.amazon.com.) **Present**

- Developed a customer-facing, backend service from scratch for which allows for other services to plug into and audit specific actions that their users might perform using the Spring framework (Java)
- Implemented a front end interface using the MVC paradigm in Spring for a web app to retrieve data from the service I built
- Implemented the usage of the service I built in a pre-existing service as a proof of concept
- Modified code of a pre-existing library to facilitate and improve debugging for other developers
- Interacted with various proprietary Amazon technologies and used popular AWS services such as S3 and DynamoDB

Mobile Engineering Intern at Canary (http://www.canary.is) **05/15-08/15**

- Developed a thorough understanding of the Bluetooth Low Energy (BLE) protocol and BLE APIs for both iOS and Android
- Implemented and handled BLE Profiles such as PXP for proximity detection and a custom Serial Port Profile to facilitate data transfer between a phone and an embedded device
- Wrote code for the Android app for a new feature, which improved reliability and speed by about 150%, that will be merged into production app while synchronizing with an embedded systems engineer who worked on the device side implementation
- Added comprehensive documentation to the company's engineering wikie for the engineering team to understand the inner workings of the feature
- Demoed new feature to a team of 30+ engineers and CTO and received positive Feedback

CTO /Co-Founder of MySwapp (http://www.myswapp.com) **05/14 – present**

- Developed iOS app from scratch using Objective-C and supervised other iOS/Android developers for the company
- Implemented Facebook and Google+ login and used JavaScript to create server side code ("cloud code" for Parse.com)
- Implemented functionality such as searching for items/users, MapKit for iOS, Google Maps API for Android, uses Parse.com API for backend, utilizes camera, and uses Twilio as well for text notifications

Android Developer For Rutgers 250th Anniversary **12/14 - 08/15**

- Designed and constructed a long-lasting Android app for Rutgers 250th Anniversary with a teammate (Overall team of four with 2 Android developers and 2 iOS developers)
- Implemented location-based push notifications using data from RESTful APIs for users to navigate historical walking tours and free roam areas
- Used GreenDAO for data persistence to create a smooth UX and used HTML rendering to transform data from the server into beautiful UI components that make sense to the user

Aresty Summer Science Research Assistant **05/14-08/14**

- My project was to develop a simple data race detector using Intel's Pin API and C++
- The data race detector checked whether or not there was a happens-before relationship between two threads that accessed the same memory location with at least one operation being a write operation
- The race detector used a vector-clock based algorithm described by FastTrack and detected 100% of races

Website: http://www.shreyashirday.com

Projects: Most of my projects are open-source and can be found at https://www.github.com/engineershreyas