

# Aishwarya Pratap Singh

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## SKILLS

### Programming Languages:

Objective-C, Swift, Java, JavaScript, Python, HTML, CSS, C#

### Tools/Frameworks

Core Data, Core Location, Map Kit, SQLite, CocoaPods, Android, d3.js, React, REST, JSON, XMPP

### Programming Paradigms

Test Driven Development, Continuous Integration, Version Control (GIT, SVN), Agile.

## WORK EXPERIENCE

### Research Aide, Arizona State University, Tempe, AZ

Apr '17

- Developed a MATLAB script to **automate the process of feature extraction** and correlate a database of sounds recorded at the various national parks throughout the country to measure their Environmental health.
- Optimized an iOS app** targeted at ALS patients and integrated **app analytics using Crashlytics**, resulting in better application usability and **reduction in the bugs by 50%**.

### Associate Architect, Payoda Technologies, Coimbatore, India

Nov '15 – Jun'16

- Led a team of 5 developers to create a **secure communication application** with **role based access** and **HIPAA compliance**.
- Collaborated, in a team of 2, to create a m-Health iOS app for **wearable data integration** from devices like Fitbit and **synchronization of clinical data** with the healthcare provider.
- Coordinated with the pre-sales team in the **estimations** and **viability of proposals** resulting in an **increase** in the **customer conversion rate by 60%**.
- Awarded the MVP** (Most Valuable Player in the Business Unit) award for my contribution towards presales activities.
- Awarded the Emerging Tech Guru award** of the year for efficiently leading my team through to the successful completion of the project.

### Software Engineer, Payoda Technologies, Coimbatore, India

July '13 – Oct'15

- Designed and documented various **reusable components** resulting in up to **20% reduction in the development time** of applications by the team.
- Engineered proof of concepts in the space of **healthcare mobile applications**, using **virtual and augmented reality**, which resulted in the company spinning off a new product called "HealthViewX".
- Awarded the Innovation award** for my continuous contribution towards **reusable components in the team repository**.

## Projects

- A Statistical Analysis of Cricket:** As a part of a course project, developed a system to enable sports enthusiasts and journalists to discover trends in the performances of the various International Cricket teams.  
**Link:** [https://youtu.be/ILLWJ\\_fa2jk](https://youtu.be/ILLWJ_fa2jk)  
**Tools and Protocols:** d3.js, HTML, CSS.
- Fit+:** An enterprise iOS application developed to collect health data from various fitness devices, show the user his health summary and provide an option to share the data with the care provider seamlessly through the app.  
**Tools and Protocols:** Swift, Test Driven Development, REST, JSON, Core Data.
- Aprio:** A boardroom app that connects the board members and the administrators and provides a way to manage meetings, contacts as well as documents.  
**App Store:** <https://itunes.apple.com/us/app/aprio/id545250393?mt=8>  
**Tools and Protocols:** Objective-c, Test Driven Development, REST, JSON, SQLite.
- BRAINNET:** As a part of an ongoing research project, developed an android application to collect brain data from a "Mind wave" device and explore the possibility of authentication and identification of a user based on this data.  
**Tools and Protocols:** Android, Java, Python

## EDUCATION

- Master of Computer Science** **Dec, 2017**  
*Arizona State University*, Tempe, AZ 3.81 GPA
- Bachelor of Technology – Software Engineering** **May, 2013**  
*SRM University*, Chennai, India 8.64 CGPA

- **CareSync:** Led a team of 5 developers to build a clinical communication and collaboration platform with HIPAA compliance, designed for the healthcare professionals.  
**Tools and Protocols:** Objective-c, Test Driven Development, XMPP, XML, JSON, REST
- **Crexendo:** A mobile application made for businesses that facilitates communication over wireless network.  
**App Store:** <https://itunes.apple.com/us/app/crexendo-mobile/id498033814?mt=8>  
**Tools and Protocols:** Objective-c, Test Driven Development, REST, SIP.