

PANDIAN RAJARAM

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EXPERIENCE

Senior iOS Developer, Endurance Group, Inc., Dallas (Remote)

Apr 2023 - Present

- Responsible for the design, documentation, coding, maintenance, distributing, and unit testing of end-client iOS application.

Software Engineer II, iOS, Mitek Systems, Inc., San Diego (Remote)

Aug 2020 - Feb 2023

- Responsible for the design, documentation, coding, maintenance, distributing, and unit testing of **Mitek's mobile capture iOS SDKs and mobile applications** (MiSnap check and document capture, MiSnapNFC, MiSnapFacialCapture).
- Played a major role in designing, documenting, coding, and unit testing of MiSnapVoiceCapture SDK from scratch.
- Responsible for handling and solving Mitek's mobile capture **iOS SDKs tickets** raised by customers.
- Solely responsible for **releasing** multiple iOS SDK patches (preparing a release package, addressing regression testing issues, updating documentation).
- Worked on **On-Device document classification and data extraction** features for Mitek's iOS MiSnap that help customers to avoid capturing an incorrect document type while adding a very small footprint to the customer app's size.
- Configured and automated the testing of the On-device document classification feature on production images in the secure cloud environment.
- Worked on creating an in-house **Licensing solution** for all iOS SDKs to protect company API while eliminating any 3rd party dependencies, which helped to reduce the overall cost of about \$15-20k a year.
- Refactored existing SDKs from **Objective C** to **Swift** to improve maintainability and ability to better user interface and unit test components, resulting in better SDK quality, faster development times, and easier customization on the customer side.
- Configured and automated the code scanning and security tools for all of Mitek's iOS SDK GitHub repositories using **custom GHAS actions**.

iOS Developer, Bsharp Sales Enablers Pvt Ltd., Bangalore.

Mar 2016 - Jul 2018

- I independently acquired proficiency in iOS application development and created an application that enables the capture of sales data through a customizable form using **UIKit**, as well as the consumption of various types of content, such as videos and presentations, through **CoreData** on the device.
- Developed and maintained 7 iOS Applications in the Apple App Store and now grown with more than 5000 installations from inception with more than 1600 unique users. By adding an Apple ecosystem, it opened a business for the healthcare industry where they depend on the Apple ecosystem, and now the iOS team development has expanded to three members.
- Learned **Deep Neural Networks** and pushed Bsharp to explore Machine Learning to solve mundane works and build a custom **Keras** model to detect whether the salesperson is wearing the Lenovo uniform or not from a selfie picture and the model is 40% faster and half of the size of the model trained on ResNet50 and helped Bsharp to acquire first deal with Lenovo to detect uniform.

- Designed a custom database architecture chat model using **Firestore - a Real-time database**, which was faster than the previous chat model and I reduced the cost for the chat module from 7000 INR to just 10 INR per month and received positive feedback from customers.

Project Engineer, Kaspon Techworks Pvt Ltd., Chennai.

Oct 2013 - Mar 2016

- Updated three in-house **Android Applications** to new UX, including design workflow and material design, and fixed all compatible issues.
- Responsible for making a quick prototype of applications that helped to acquire customers like Larsen and Toubro, TVS, and Sundaram Clayton Limited.
- Worked with a US-based advertising enterprise and made an Android Application to **detect high frequency** using the microphone on Android phones and to decrypt the messages that are watermarked on the advertisement.

EDUCATION

- **Masters in Computer Science**, California State University, LA. **Aug 2018- May 2020**
Area of Specialization: Deep Neural Network - Vision, Augmented Reality.
- **Bachelor of Technology in Information Technology**, GKM College Of Engineering and Technology, Anna University, Chennai. **June 2010 - June 2013**
Area of Specialization: Advanced Web Programming and Android Applications.
- **Diploma in Information Technology**, Kumaran Polytechnic College, Tamil Nadu Directorate of Technical Education, Thiruvannamalai. **May 2007 - April 2010**
Area of Specialization: Basics of Programming and Web Programming.

APP DEVELOPMENT PROJECTS

- [Predict My Health](#): Health **SwiftUI** app using on-device machine learning **CoreML** for predicting the next 7 days of your weight and VO2 max using **HealthKit** data.
- [Love Yourself - AI Diary](#): Swift AI-powered diary app with sentiment and entity analysis, empowering self-reflection. Simple interface and secure journaling.

AWARDS and ACHIEVEMENTS

- Won Platinum Record 3 for assisting a high-priority production issue at midnight of a long weekend holiday.
- Won the game changer of the year award for pushing Bsharp to explore more about Artificial Intelligence and implemented the Uniform Project.
- Completed Phase A - External Internship Program(Machine Learning) at The Inkers.
- Won the best android application award in a workshop conducted by Dimension CO.
- Finalist for the 2013 Best Project Award in GKM College of Engineering and Technology.

TECHNICAL CERTIFICATIONS

- Natural Language Processing in TensorFlow, Coursera. **Sept 2019**
- Neural Networks and Deep Learning - Deep Learning Specialization, Coursera. **Aug 2018**
- External Internship Program - Machine Learning, The Inkers. **Apr 2018 to Jun 2018**
- Android Application Development, Dimensions CO. **Jan 2013 to Mar 2013**