

MD. SUJAN

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Career Objective:

To become associated with a Software company/IT industry and to continuously strive for Software development by hard work, where I can utilize my skills and gain further experience while enhancing the company's and personal productivity and reputation.

Employment History:

- **Software Developer, iOS** February 01, 2017 –Continuing
DataSoft Systems Bangladesh Limited.
Rupayan Shelford (20th floor), 23/6, Mirpur Road, Shyamoli, Dhaka-1207, Bangladesh

Link: <http://datasoft-bd.com/>

1. NISSAN Driver's Guide :

The Nissan Driver's Guide is an application based on Augmented Reality Technology. It will help you to learn and understand more about your vehicle of Nissan Motor Company.

Link : <https://itunes.apple.com/lu/app/nissan-drivers-guide/id913672032?mt=8>

Responsibility:

- Using Objective C, Swift for development.
- Using Augmented Reality SDK for Image Recognition
- Using Networking for downloading App Usable Content.
- Using API Parsing for Dynamic language and Other Content for 15 different countries language support.
- Using Core data for Data Persistence, Updating, Saving feature.
- Using XML / Epub Parser for parsing content from TOC of html page.
- Using Firebase push notification for supporting Update content feature in app.
- Using Data Compressor, Zipping, unzipping for memory management issues.
- Using Custom Design and Custom UI Support for the App
- Using Google Analytics for Analysis of the App usage to improve user experience
- Enabled Support to Add new feature which will be configurable from web server based on client requirements.
- Using Core Graphics, Core Animation for content Showing.
- Using Custom Video player support for play videos
- Using Search feature for searching content from the app
- Rating the App, Send feedback feature. And so on.

2. INFINITI Driver's Guide :

The INFINITI Driver's Guide is an application based on Augmented Reality Technology. It will help you to learn and understand more about your vehicle of INFINITI Motor Company.

Link <https://itunes.apple.com/nl/app/infiniti-drivers-guide-ch/id1330552703?l=en&mt=8>

Responsibility:

- Using Objective C, Swift for development.
- Using Augmented Reality SDK for Image Recognition
- Using Scene- kit, AR- kit for 3D Support.
- Showing 3D model, content after Specific parts Recognition.
- Using Networking for downloading App Usable Content.
- Using API Parsing for Dynamic language and Other Content for different countries language support.
- Using Core data for Data Persistence, Updating, Saving feature.
- Using XML / Epub Parser for parsing content from TOC of html page.
- Using Data Compressor, Zipping, unzipping for memory management issues.
- Using Custom Design and Custom UI Support for the App
- Using Firebase Analytics for Analysis of the App usage to improve user experience
- Using Core Graphics, Core Animation for content Showing.
- Using Search feature for searching content from the app

This is the Our First Successful RND App for Enabling 3D support buy using various AR SDK and using iOS 3D Support Platform.

3. Indoor Positioning

An application built for the tracking Devices within a range by using Core location and Bluetooth Low energy technology. This app enables Live Updating of your device location when moving. This is a RND based project of Smart House Management project for Japan.

Responsibility:

- Tracking device movement.
- Live Updating movement tracking within app.
- Using I -beacon devices for BLE technology.
- Using Notify feature when device enter within positioning area.
- Make this application robust and user friendly through testing.
- Identify and correct bottlenecks and fix bugs.

4. AtTrack

A networking based auto attendance system. When entering within a range of registered network then the app support auto login, attendance support into their offices. Admin panel for Configuring Employee info and registering trusted network. Live Dashboard support for information and update of employee login. Daily, weekly, monthly based employee reporting

Responsibility:

- Make application support for iPhone and iPad
- App feature implementation and Major bug fixing.

- Using Networking, BSID Registration of trusted network.
- Notification feature for the user about their login update
- Other minor bug fixing.

- **iOS App Development trainer** June 1, 2017 – Feb 30, 2018
DataSoft Systems Bangladesh Limited.
 Rupayan Shelford (20th floor), 23/6, Mirpur Road, Shyamoli, Dhaka-1207, Bangladesh

Responsibility:

- Making learning materials for the students.
- Taking class on training program
- Implementing real life projects for students.
- Taking exam, viva, etc.

- **iOS App Development trainer** April 1, 2018 – Aug 9, 2018
PeopleNTech Institute of Information Technology
 8th Floor, Good Luck Center, 151/7 Green Road, Dhaka 1205, Bangladesh.

Responsibility:

- Making learning materials for the students.
- Taking class on training program
- Implementing real life projects for students.
- Taking exam, viva, etc.

Thesis & Others Projects:

Thesis:

1. A complete thesis on Bio medical Imaging titled "**A Segmentation Based Automated System for Brain Tumor Detection**" using Matlab and background study of Digital Image Processing which has been accepted and published on IJCA (International Journal Of Computer Application) in Volume 10, November 2016.

Link-

<https://pdfs.semanticscholar.org/765c/5850170b1a21f9cbcf36323fd0b2613e03a.pdf>

Project:

***iOS projects:** Developed various in-house and client's product in native iOS platform.

***Java projects:**

1. Digital Payment System project using Java and MySQL.
2. SEC Result Information using Java and MySQL.
3. School Management System using Java and MySQL.

*** Artificial Intelligence and Machine learning project:**

1. Bangladeshi Number Plate recognition and detection system.

Special Qualifications:

- Having a logical approach to problem solving and analytical skills.
- Very much interested in programming, problem solving and generating ideas. Solved 100+ ACM in UVA Online Judge.
- Having an excellent knowledge on iOS Apps development with both Objective C and Swift and too much interested to learn new technologies.
- Have a decent knowledge on data structure and algorithm.
- Work well under pressure as a part of a team or individual.
- Dedicated to continuously developing, implementing, and adopting new technologies to maximize development efficiency and produce innovative applications.
- Quick learner. Eager to enhance my programming knowledge and skills.

Experience:

- Hard working and passionate Software Engineer with 2 years of iOS Application Development experience in software industry.
- Clear concept in object oriented language.
- Solid understanding of full mobile and software development life cycles, iPhone, iPad material UI design, Auto layout and other Dynamic and Custom UI Design feature.
- Special working knowledge on Augmented reality(AR) concept.3D Support in App,3D model loading, Custom UI on live Camera Surface.
- Working experience with Google Map, Core location, Map kit, AR-kit, Scene-kit, Alamofire and so many popular libraries.
- Using MVP and MV as code architecture.
- Started working using Scene-kit, Core-ML, AR-kit.
- Experienced with GPS, location based app development, view life cycle of iOS App, Firebase Cloud Messaging, Google Map, Core data, Push notification, Google & Firebase Analytics, Data model, Structure, Memory management, Thread Safety, Delegate, Protocol, Extensions.
- Working experience of MySQL, SQLite Core data for data storing.
- A handful experience with networking, downloading content, API/JSON parsing, XML/Epub parsing from TOC of HTML Page, Data Compressing, Encrypting, Bluetooth technology.
- Working knowledge on Git version controlling.
- Have clear concept on Apple App publishing Procedure, IPA Giving, App Submitting, Apple review process for App publishing.

- Strong knowledge of subject areas in Computer Science like Data structure, Algorithm, OOP, Database, Graph theory, Discrete Math, Concrete Math, Compiler, Artificial Intelligence, Image Processing, Machine Learning of Undergraduate Program.

Computer & Technical Strength:

Operating System: Windows, Mac OS.

Programming Languages: C, C++, JAVA, Objective-C, Swift.

Database: MySQL, Oracle, SQLite, Core data.

Software Development Tools and IDE: Turbo C++, Codeblocks , NetBeans, Xcode, Notepad++, Matlab.

Familiar: OpenCV, Android. Python, Titanium Cross Platform.

Educational Qualification:

Examination	Year	Board/University	GPA/CGPA
S.S.C in Science	2008	Dhaka	5.00 Out of 5.00
H.S.C in Science	2010	Dhaka	4.90 Out of 5.00
B.Sc in Computer Science & Engineering	2016	Shahjalal University of Science & technology.	3.75 Out of 4.00 (with honored).

Training Summary:

Training	Topic	Institute	Country	Locatio
Programming Training	Basic data structures, basic algorithms, advanced algorithms, and Graph Algorithm, Problem Solving techniques.	Shahjalal University of Science & Technology	Bangladesh	ACM Lab, SUST

References:

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