



## Sonali Gupta

iOS and EIS Developer at  
Tata Consultancy Services



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## Languages

- Swift
- M-scripting
- CAPL scripting
- C#
- VBA
- Java
- Shell scripting

## Tools & Technologies

- Xcode
- MATLAB
- Simulink/Stateflow
- CANoe
- Visual Studio
- AUTOSAR
- Telematics
- Microsoft Excel

## Education

- Bachelor of Engineering SVITS, Indore
- 2013-2017(CGPA-8.31/10)
- Standard Xii- 86.8 %(2011-2012) from JNV Panna
- Standard X – CGPA 9.6/10(2009-2010) from JNV Panna

## Awards & Recognitions

- Won a Best Team Award for orientation program organized for Japanese trainee
- On the Spot Award — (Tata Consultancy Services)
- Awarded by JNV Panna for securing first rank in Xii standard.

## Profile Summary

An IT professional with 3.8 years of work experience in Automotive domain including 1 year onsite experience for Japanese client. Worked in iOS mobile application development, AUTOSAR, Telematics. My skill set lies in communicating with client for requirement gathering and providing business solution and help them in decision making.

## Core Skills

- Experience of working on various iOS mobile applications
- Hands on experience of using realm database for storing and retrieving data
- Experience of working on MATLAB and simulink for modeling
- Experience of handling client and coordinating with team
- Hands on experience of using app designer and MATLAB coders for generating executables
- Good understanding of AUTOSAR application layer
- Good experience of adopting new technologies in short time span

## Work Experience

### iOS mobile application development

- Developed iOS mobile applications using swift which shows various vehicle status and Trip History
- Developed location based reminder application which set location reminder and sent notification if user crosses geofence of set location
- Developed application which load different plist file according to configuration
- Integrated various third party libraries using pods in application like FS Calendar, Google Maps, Charts, iOS dropdown etc.
- Designed different UI using storyboard
- Provided multiple language support for different applications
- Used realm database for storing and retrieving data
- Used Test Flight API for sharing test builds and getting user logs and crash reports etc

### AUTOSAR

- Worked as a onsite coordinator in Japan
- As a onsite coordinator, was responsible for interacting with Japanese client on regular basis for requirement gathering and its analysis
- Responsible for ensuring all the finalized requirement are timely implemented by offshore team
- Defined the process to ensure all ECU are AUTOSAR compliant
- Performed BSW requirement analysis which involved analysis and comparison of client middleware requirements with AUTOSAR BSW requirement

### Telematics Functional

- Worked on Matlab and Simulink modeling of Electronic Control Units (ECUs) connected to the TCU in real vehicle
- Designed and implemented Matlab GUI for simulated ECU using app designer
- Established CAN Communication between TCU and Matlab
- Implemented HTTP request functionality to initiate a Telematics feature using m-Script to replicate Google Postman
- Designed a user interface to form the HTTP Request using app designer
- Generated executable file from Matlab project using Matlab coder

## Other Highlights

- Developed a script in shell scripting to access TCU file system and change the server address present in the TCU using Putty
- Part of developing a tool to replicate the Telematics Server in C# using Visual Studio
- Developed a script which extract review comments from excel to different excel file using VBA
- Developed CAPL scripting for customizing CAN signals using CANoe tool