

**Pushap Saini**

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### **Work Experience:**

- 1. Tata Consultancy Services (System Engineer)** **December, 2018 – Ongoing**  
My job involves designing/developing new applications using PL/SQL and providing support using Oracle Apps like Oracle APEX.
- 2. Singsys Pvt. Ltd. (Software Engineer)** **July, 2018 – November, 2018**  
My job involved development and debugging of Web Applications and providing back-end solutions using Laravel framework of PHP.
- 3. NR Switch -N- Radio Pvt. Ltd. (Network Engineer)** **May, 2017 – August, 2017**  
My job involved installation, testing and debugging of CACU (Central Access Control Unit) / LAGU (Logical Access Gateway Unit) systems and providing technical support and solutions for network problems with Red Hat Enterprise Linux Platform.

### **Projects:**

- 1. JARVIS – Personal AI Assistant** **Dec, 2017 – March, 2018**
  - Built a personal AI assistant on Raspberry Pi for controlling different electronic appliances and getting things done just by communicating.
  - Apart from the IOT Applications, this device uses multiple APIs for language processing, speech recognition, Email Processing using Gmail API and personal music library etc.
  - Moreover, it has its own User Interface (developed using PyQt Modules) which could be used to communicate with this Smart Assistant including its personal Browser to surf the Internet.
- 2. Language Learning System** **Oct, 2017 – Nov, 2017**
  - Build a prototype (Desktop app) of a language learning system which is capable of detecting an object and providing a short description about the object in multiple languages by making use of open source API's.
- 3. Li-fi Based Smart Homes** **Aug, 2017 – Oct, 2017**
  - Used the latest li-fi technology with IOT to communicate with different electronic devices around the house.
  - Used small Solar Panel Plate to detect the light variations in house LED bulbs controlled through NodeMCU module.
- 4. Automobile Monitoring Tool** **Aug, 2016 – Dec, 2016**
  - Build a prototype of black box for low budget cars.
  - This included some sensors used to monitor the health of the vehicle remotely from mobile phones.
  - Also, it included collision detection system which could locate the vehicle and alert the hospitals about the incident.
  - Used GPS and GSM modules to detect the location of the vehicle and send an SMS from the configured SIM to a pre-programmed mobile numbers.

### **Skills:**

- SQL, PL/SQL, Oracle APEX, HTML, CSS, JavaScript, jQuery, AJAX, Python.
- Experienced with Git, UNIX, Linux.
- Tools and Hardware: Arduino, Raspberry Pi, Unity 3D, PL/SQL Developer.

### **Achievements:**

- Young Achiever, Special Initiative Award, On the Spot Award in TCS.
- Secured best project prize for major project at IBM ICE 2018.
- Secured first position in Project Parliament held by IT Conclave 2016 for best minor project.

### **Publications:**

- Automobile Monitoring Tool, International Journal of Engineering and Computer Science (JAECS) ISSN: 2319-7242 Volume 5 Issue 11 Nov.2016, Page No.19132-19134.