

# Piyush Soni

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## EDUCATION

### DELHI TECHNOLOGICAL UNIVERSITY

#### B.TECH IN MECHANICAL ENGINEERING

2017-2021 | Delhi, India  
CGPA: 8.36 / 10.0

## LINKS

Github:// [piyush9868](#)  
LinkedIn:// [piyush9868](#)  
LeetCode:// [piyush-soni](#)

## SKILLS

### PROGRAMMING

- Java • DSA • System Design
- Kotlin • Android • HTML-CSS
- Python • Jupyter Notebook
- Database • Git • Windows

### FRAMEWORKS

Spring Core • Spring MVC  
Spring Boot • Rest API • ORM  
using JPA • Android • Hilt

## COURSES

Database Design  
Operating System From Scratch  
Introduction to Data Science in Python

## ACHIEVEMENTS

Cleared Samsung's SWC Advanced proficiency test  
3 star in leetcode (over 360 questions solved)  
SQL 4 star in Hackerrank

## EXTRA CURRICULAR

### TEAM HERTZ ELECTRIC VEHICLE DYNAMICS HEAD

Led a team of 15 members to FB 2020 as the VD head.  
7th rank - Formula Bharat 2020

### LEADERS FOR TOMMORROW CORE TEAM MEMBER

Volunteered in sapling plantation and cleanliness. Taught underprivileged students in Govt. School

## EXPERIENCE

### SAMSUNG RESEARCH | SENIOR SOFTWARE ENGINEER

SmartThings App team | Oct 2022 - Present

- Contribution on development in Driving Plus App i.e a part of Connected Car System in both front end and backend part.
- Took up the development of the app from scratch, employing and developing algorithms for sharp turn, rapid deceleration etc., deploying the app and handling live user traffic
- Collaborated with the backend team on the authentication segment, designing and deploying APIs from scratch in Spring Boot
- Migrated from legacy infra to airflow leveraging Kubernetes pods for managing multiple instances and cost reduction
- **Skills:** Core Java, Spring Boot, Kotlin, API design, Android, MongoDB, AWS, Docker

### ACCENTURE | SOFTWARE ENGINEER

July 2021 - Sept 2022 | Pune, India

- Worked as a Backend developer in Nissan project
- Worked on a **Spring Boot application** i.e. Kamereon that performs remote operations like remote door lock/unlock etc. on a vehicle based on user input from mobile app
- Developed vehicle status reminder feature which tracks the status of vehicle components and sends notification to user when required
- **Skills used:** Java, Spring Boot, Rest API, Azure, Postgres SQL, Redis,

## PROJECTS

### CAR SERVICE APPLICATION

- Developed a Spring MVC application for Car service where user can register for their car, calculate the repair cost and view their service history.
- Built UI using **HTML-CSS** and used server side rendering to display the web page.
- Used **Spring Framework** (Java) for request handling and database manipulation
- **API's and frameworks used:** Spring MVC, Persistence API, MySQL DB to store the repair history

### NASA TURBOFAN FAILURE PREDICTION

- Predicting the condition of NASA turbofan using sensor data for temperature, core fan speed, pressure etc. using ML algorithms
- Optimised and compared various algorithms **Logistic Regression, Random Forest, Decision Tree, AdaBoost, GradientBoost**
- **Skills used:** Python, Pandas, Data Visualization using Matplotlib

## PUBLICATIONS

[1] Soni, Piyush Zubair, Mohammad Garg, Suresh. (2021). Multiclass classification for predicting Remaining Useful Life (RUL) of the turbofan engine.