

# Curriculum vitae

## Satish Kumar



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<https://satishsingh0077.github.io>



**Gender** Male | **DOB** 12/08/1993 | **Nationality** Indian

Motivated and task-oriented individual with 4 years of experience in Software Development. Skilled in C++, Python, HMI & AUTOSAR. Worked with projects involving automotive software development, HMI development and automation. Experience in complete software development life cycle. Possesses good communication, critical thinking, interpersonal and relation building skills.

## Technical Skills

- C/C++, Python, Shell Scripting, xslt, HTML & Css
- Software / Embedded Software Development
- Object Oriented Programming
- Process Automation
- AUTOSAR
- Agile, Scrum
- V model, DevOps
- CAN, TCP/IP
- Linux, Windows
- Qualification and Integration validation
- Jenkins, Git, Jira, Confluence, Altia, Google-Test, CANOE, DET, INCA, SVN, ECU-Worx, SDOM, Visual Studio, MS Office

## Work Experience

### Work Student at Luxoft, Germany [11/2021 - 06/2022]

#### Responsibilities:

- Writing functional tests for Diagnostic service applications based on customer provided software test specification in C++.
- Automation of Test using Google Test framework.
- Deploying executables and performing test on Raspberry Pi
- Aspice artifacts automation.

#### Achievements:

- Automated the process of Aspice artifacts creation.
- Created quality dashboard for entire process traceability.
- Created test automation using shell script, python and Google Test.
- Created Jenkins pipeline and scheduled automation.
- Created xslt file to automatically transform xml to html.

## **Embedded Software Engineer at Robert Bosch, India [03/2019 - 02/2020]**

### **Responsibilities:**

- Development of embedded software for engine control modules as per customer's requirements based on Autosar architecture
- Development of CAN frames
- ECU Testing
- Hardware in loop testing on INCA

## **Software Engineer at KPIT Technologies, India [11/2016 - 02/2019]**

### **Responsibilities:**

- Developing HMI graphics for Instrument panel cluster in Altia as per customer requirements
- Developing software for controlling transitions of various animations
- Performing traceability and dependence study for impact analysis
- Sub-Modules integration
- Translations generation for various menu structures
- Qualification and Integration validation

### **Achievements:**

- Feature owner for Traffic sign recognition HMI module
- Created complex animations for selectable drive modes
- Automated code generation for warning by parsing requirements file using python
- Created macro tools for comparison and formatting

## **Projects**

- Automotive Software Development for DFCV, Qingling and CNHTC
- HMI software development for Denso and Ford
- Functional STS for diagnostics service application for Volkswagen
- Quality dashboard and ASPICE artifacts automation
- Jenkins server and pipeline setup
- Automatic Portfolio tracker using Excel Power Query and Power BI
- Customer outstanding visualizer using python

## **Education**

- Master's student at Otto von Guericke University Magdeburg, Germany (Ongoing)
- Bachelor of Engineering in Electronics and Communication, VTU, India (2016)

## **Links**

- LinkedIn: <https://www.linkedin.com/in/Satish-Kumar-e/>
- LeetCode: [https://leetcode.com/satish\\_singhx/](https://leetcode.com/satish_singhx/)
- GitHub: <https://github.com/satishsingh0077>
- Stack Overflow: <https://stackoverflow.com/users/17842249/satish-kumar-singh>

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