

# Pasupula Srinivas Vishnu Vardhan

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## Summary

- 10+ years of experience as a C/C++ software developer.
- Currently leading a team of enthusiasts to learn and build Generative AI applications.
- For 2+ years developed Middleware platform software in Bosch for Adaptive AutoSAR framework with safety and ASPICE compliances.
- Developed SiL software for a Middleware project at ZF India, compliant to ASPICE framework.
- Followed *agile method* of development throughout career.
- Experienced *in collaborating* with multi-national teams to develop software projects.
- Experienced *in all stages* of V-model Software Development Life Cycle.
- Passionate about learning new technologies—currently *learning and working* on some personal projects with a fusion of Generative-AI, React, HTML, CSS, JavaScript with a hint of Raspberry Pis, ESP8266s, Arduino UNOs.

## Skills

Programming	Scripting	Front-end	Database	Tools, Frameworks, Applications
<b>C, C++, Python, Java, CUDA C</b>	<b>Python, Shell, MATLAB</b>	<b>HTML, JavaScript, CSS</b>	<b>SQL (IBM DB2, MySQL)</b>	<b>React, React Native, Docker, CI/CD (Azure and Jenkins), OpenAI, Langchain, ChromaDB, Streamlit, ROS</b>

Skill levels: **Advanced**, *Intermediate*, Basic

## Work Experience

### Bosch Global Software Technologies

Hyderabad, India

#### Tech Lead

August 2022 - Present

- As a team lead, designing and developing Generative AI Applications using RAG and Agent methodologies.
- For 2+ years was part of a team developing Update and Configuration Management for Adaptive AutoSAR middleware platform using C++ (C++14), Python.
- Implemented Unit Tests using Google Unit testing framework, Component Tests and Binary Tests.
- Followed Agile methodology with Program Increment of 2 months and each sprint of 2 weeks.
- Followed Peer reviews for every work item that is finished.
- Implemented tools using Python to improve the developer productivity.
- Had regular Knowledge Sharing sessions on C++.

### ZF India Technology Center

Hyderabad, India

#### Tech Lead

September 2018 - July 2022

- As a Product Owner, designed and developed SiL software applications following ASPICE framework.
- Using C/C++, implemented Simulation counter parts for the hardware components (ex. camera).
- Using Socket Communication protocols (TCP and UDP), implemented C/C++ applications that send and receive large amounts of data (image, audio, sensor signals).
- Implemented Unit Tests using Google Tests.
- Implemented tools and code generators using Python to improve the developer productivity.
- Implemented CI/CD pipelines in both Jenkins and Azure environments.
- Encouraged and trained colleagues and team mates to use Conan (<https://conan.io>), a C/C++ package management tool.
- Developed an eclipse plugin for Conan.

### ASML

Veldhoven, The Netherlands

#### Embedded Software Design Engineer

November 2016 - August 2018

- Developed embedded software libraries using C/C++.
- Using Python and Google Test framework, implemented unit tests and improved test software coverage for legacy code.

## Net.Orange

Software Engineer

Hyderabad, India

June 2012 – June 2014

- Did Full-Stack development.
- Developed back-end (services and database) using JavaEE, MySQL and developed front-end using Adobe ColdFusion.

## Education

### Technical University of Eindhoven

Eindhoven, The Netherlands

MSc in Embedded Systems

Sept 2014 - June 2016

- **Courses:** Embedded Computer Architecture, Quantitative Evaluation of Embedded Systems, Embedded Visual Control, Networked Embedded Systems, Video Processing, etc

### Keshav Memorial Institute of Technology

Hyderabad, India

BTech in Electronics and Communication Engineering

June 2008 - June 2012

- **Courses:** C Programming and Data Structures, Control Systems, Computer Organization, Microprocessors and Interfacing, Computer Networks, Operating Systems, etc

## Achievements

- |           |  |       |
|-----------|--|-------|
| 2010      | <b>Among the top 20 teams</b> , IBM's web application development competition in 2010.                     | India |
| 2020      | <b>Rockstar award</b> , at ZF India for my work on C/C++ package management and Eclipse Plugin development | India |
| Q1 - 2025 | <b>Hyderabad Pearl</b> , Bosch Global Software Technologies  | India |

## Interests

### Latest Advancements in tech

I love tech. I keep myself up to date with latest advancements in technology by following sites such as hackernews. Of late, I have been quite fascinated with Generative AI.

### Embedded at home

I have multiple SoCs, microcontrollers, sensors and actuators at home on which I try to work on and experiment latest technologies.

### Table Tennis

Holding that little bat to hit the ball that spins like a top is what got me interested in the game.

## Languages

- |                |   |
|----------------|---|
| <b>English</b> | Professional proficiency  |
| <b>Kannada</b> | Native proficiency  |
| <b>Hindi</b>   | Native proficiency  |
| <b>Telugu</b>  | Native proficiency  |
| <b>French</b>  | I have been on a 1798 day learning streak on Duolingo app. It tells me, as per CEFR levels, I am at A2. |