

Sathiyarayanan Palani

Solutions Architect



About me

I am good at providing solutions for the problems via possibilities in the tech realms as a Solutions Architect.

(specialized in Zero-One developmental phase).

Interested in (Entrepreneurship / Problem Solving / Proof Of Concept Development).

Personal

Sathiyarayanan Palani
Date Of Birth : 28 March, 1996

Areas of Interest

Software • Architecture
• Embedded • Web • CI-CD
• Machine Learning • IOT

Languages

Python / C / C++ / Shell &
Batch Basics

Protocols

UART / I2C / SPI / TCP / IP
/ UDP / HTTP / MQTT / SQL

Web

Fast API / Flask / Node &
React Basics

Devops

Github Actions / Jenkins
/ Docker, k8's & Ansible
Basics

ML

OpenCV / OpenVINO
/ Tensorflow, Pytorch &
Keras Basics

EXPERIENCE

Nov, 2023–Present

Telemetry Software Data Engineer

INTEL SRR · Bangalore 📍

- Design, Implementation & maintenance of several frameworks to ensure the efficient flow of data from edge devices to cloud for intuitive visualization.
- Proposal, Prototype of Event Based Distributed Tracing architecture for enhanced telemetry collection process, drawing inspirations from Open Telemetry Project for better observability.
- V&V POC - Evaluating, Prototyping to ensure the infrastructure for implementation of assisted verification and validation of designs by leveraging Pre-trained AI Models.

May, 2022–Oct, 2023

Semiconductor S/W Product Development Engineer

UST GLOBAL · Bangalore 📍

- Responsible for Python Automation test framework, modification, maintenance & Improvement with the use of Github Actions for CICD.
- Implemented Serial-Over-LAN using IPMI Tool, with monitoring thread for re-trying connections during reboot.
- Collecting Thermal and Power Subsystem KPI's via Redfish, based on DMTF Docs, using ODATA queries that works on top of REST APIs.

Oct, 2018–Dec, 2021

Senior Engineer

IELEKTRON TECHNOLOGIES · Chennai 📍

- Deployed as External at SAFRAN & MBRDI, Bangalore.

Apr, 2019–Dec, 2021

Software Validation Engineer

MBRDI (AS EXTERNAL) · Bangalore 📍

- Responsible for unit testing, L2 testing using Google test framework in c++ based on Scenarios (SIL) & Runtime dynamic analysis of ADAS utility modules in c using ASTREE.
- Responsible for development of Custom framework and reusable components in Python & Bash for automated test case generation using pandas data frames for pre-HIL execution task.
- Responsible for writing test scripts for automated validation of measurements in python based on HIL scenarios from DOORS.

Oct, 2018–Mar, 2019

Python Developer

SAFRAN AEROSPACE (AS EXTERNAL) · Bangalore 📍

- Responsible for Multi-Display Broadcast over local Network using TCP/IP.
- Responsible for Data Visualization of sensor plots in Aerospace Applications using python & plotly (3d scalar plots).
- Responsible for visualization of volumetric data in the form of normal distribution for the development of algorithm on event classification using Matplotlib.

Jul, 2017–Sep, 2018

Embedded Software Developer

IELEKTRON TECHNOLOGIES · Chennai 📍

- Responsible for Embedded Software Development of Security Products based on Renesas Micro-controller.
- Development of multi-branch CI/CD pipeline in Jenkins for Unit Testing with github app integration for events and mail, slack integration for notifications.
- Responsible for development of semi-automated hardware testing platform for Renesas Microcontrollers using Iron-python Renesas APIs.

SKILLS

Proficiency in Communication



Self-Learning / Problem-Solving




Proof-of-concept development



EDUCATION

2013–2017


BE - Electrical & Electronics Engineering

AIHT, KAZHIPATTUR · Aff. to Anna Univ, Chennai 

- Graduated with a first class in Electrical and Electronics Engineering.
- Final Year project done using OpenCV and Raspberry Pi for Automatic Attendance System using Face Recognition.

2012–2013


HSC

ARLM · Cuddalore 



- Completed with 85%.

2010–2011

SSLC

SRV · Trichy 

- Completed with 85%.

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