



Sathiyarayanan Palani

Solutions Architect

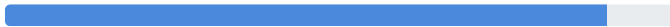
About Me

👋 Hi! I'm Sathiyarayanan Palani.
👁️ I am good at providing solutions for the problems via possibilities in the tech realms as a Solutions Architect. (specialized in 0-1 developmental phase)
🗨️ Interested in (Entrepreneurship / Problem Solving / POC Development)

Age	27
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Professional Skills

Python



C/C++



Jenkins/Docker



Proficiency in Communication



Self-Learning/Problem-Solving



Proof-of-concept development



Skills

Category

Technologies

Languages:

C, C++, Python, Shell & Batch basics

Operating System:

Linux, windows

Communication Protocols:

UART, I2C, SPI

Networking Protocols:

TCP/IP, UDP, HTTP, MQTT, SQL

SCM:

git, Github

Tools and Libraries:

Gtest, FFF, Jenkins, Git, MySQL, OpenCV, Tkinter, paramiko, SCP, pandas, ASTREE, lark – parser, matplotlib, numpy, pyYaml, rich, pytest

Web Technologies:

LogExAnWebApp (Fast API, Flask) ScEqAnWebApp (Fast API, React UI)

DevOps & Deployment:

Jenkins, Docker, kubernetes, Ansible basics, ansible-LogExAnWebApp-deployment

Machine Learning:

OpenCV, Tensorflow, VGG16-senet50 - Transfer Learning & Evaluation, senet50-TL

PyPI:

LogExan, ScEqAn, more

Work Experience (6 years)

Semiconductor S/W Product Development Engineer at UST Global, Bangalore

(May, 2022 - Present)

- Responsible for Python Automation test framework, modification, maintenance & Improvement. Handling Development, Testing, setting up CICD Nightly using Github actions with custom runners for Python packages, being part of automation telemetry team
- Implementing Serial-Over-Lan using IPMI tool & tee object using Powershell command, with monitoring thread for retrying connections during target reboot & Worked on POC for uploading register values to influx DB, using low-latency InfluxDB-line-protocol, for Storage, Visualization & analysis. Collecting Performance KPI's from Thermal & Power sub-system via Redfish, based on DMTF Docs, using ODATA queries that works on top of REST APIs

Senior Engineer at Ielektron Technologies, Chennai

(Oct, 2018 - Dec, 2021)

Software Validation Engineer at MBRDI, Bangalore (as External)

(Apr, 2019 - Dec, 2021)

- Responsible for writing test scripts for automated validation of measurements in python based on HIL scenarios from DOORS.
- Responsible for HiL process Automation via SSH using python Libraries like paramiko and SCP.
- 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 Runtime dynamic analysis of ADAS utility modules in c using ASTREE.
- Responsible for unit testing, L2 testing using Google test framework in c++ based on Scenarios (SIL).

Python Developer at SAFRAN Aerospace, Bangalore (as External)

(Oct, 2018 - Mar, 2019)

- 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.

Embedded Software Developer at Ielektron Technologies, Chennai

(Jul, 2017 - Sep, 2018)

- Responsible for Embedded Software unit and functional Testing.
- Responsible for Embedded Software Development of iElektron Security Products.
- 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

Education

BE – Electrical and Electronics Engineering from Anand Institute of Higher Technology, Chennai (affiliated to Anna University)

2013 - 2017

- 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.

HSC from ARLM Matric Higher Secondary School, Cuddalore

2012 - 2013

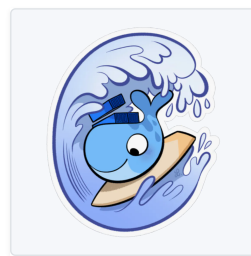
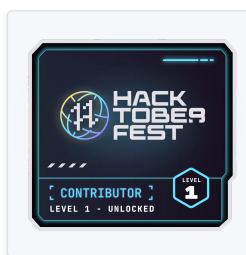
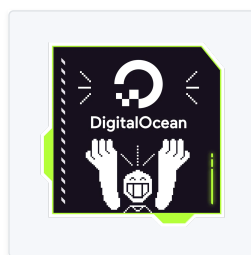
- Completed with 85%

SSLC from SRV Matric Higher Secondary School, Trichy

2010 - 2011

- Completed with 85%

Participations



Proposals

Element 14 Road Test

Proposal written on the Test strategy & Test procedure to be followed for testing Xsens MTI-680-DK GNSS/ISS Development Kit.

[More >](#)

Cluster Monitoring

Proposal written on Monitoring clusters, for Visualization of node observability metrics, involved in Intense workloads like Training ML models.

[More >](#)