



# Shibin Judah Paul

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[Github Portfolio](#)

## EXPERIENCE

### Personal Sabbatical

JUNE 2019 - PRESENT

- Provided 24/7 in-home care for my Father during his rehabilitation after two life-saving procedures until he made a full recovery.
- Taught **Python** and **Basics of Machine Learning** pro-bono to the Abdul Kalam Community College students remotely during the Pandemic.
- **Built and designed** a few prototypes and wireframes for a **Learning Management System**, which Gamified learning, Used **Student's** individual learning data to help tailor a learning curve to aid **Teachers** and an intuitive overall dashboard for the institution's **Administration**.
- In preparation for the **Tensorflow Developer Certification**, I undertook a few online **Courses** and **Workshops** to fine-tune my ML skills in different domains — **Computer Vision**, **Natural Language Processing**, and **Time Series Prediction**.
- Providing in-home care for my Mother after a severe medical condition rendered her bedridden for several months.

### Mphasis Wyde, Pune, India— *Software Engineer*

Mphasis Wyde provides global Insurance Policy Administration through Wynsure, a multi-language, multi-currency solution for on-premise or cloud deployment.

JUNE 2017 - JUNE 2019

As a developer in the Web Back Office team,

- We **developed** a web application that is lightweight and responsive.
- **Worked** with software development and testing team members to design and develop flexible solutions to meet client requirements for functionality, scalability, and performance.
- **Wrote** highly maintainable, solid code for the software system, forming a core framework.
- **Collaborated** with UI/UX team to integrate UI features complying with prescribed code standards and technical design guidelines.
- **Revised, modularized, and updated** old code bases to modern development standards, reducing operating costs and improving functionality.
- **Facilitated** Scrum framework – sprint planning, backlog grooming, daily scrums, sprint reviews, and sprint retrospectives.
- **Evaluated and adopted** new technologies to address changing industry needs – Responsive Web design and APIs.
- **Researched** emerging technologies and current trends to stay knowledgeable in methods that could benefit the Scrum team.

## SKILLS

Python | C++ | Embedded C |  
Matlab | Javascript

Regression | Neural Networks  
Computer Vision | Time Series  
Forecasting | NLP | Data Science

NumPy | OpenCV | TensorFlow  
Keras | Seaborn | Matplotlib  
SciKit-Learn | Pandas

Image Processing | Feature  
Extraction | Object Detection and  
Tracking | Optical Flow | Stereo  
Vision

Arduino | Raspberry Pi | ROS  
Gazebo | MoveIt!

Full Stack Development | Git | SQL  
Amazon AWS | Google GCP | JIRA

## LANGUAGES

**Tamil and English** – Native /  
Full Professional Proficiency

**German** – Working Proficiency

**Hindi and French** – Limited /  
Elementary Proficiency

## HONORS, AWARDS & PUBLICATIONS

Awarded several letters of recognition for performance excellence on monthly and quarterly basis along with bonus pay.

Showcased **The Interceptor V2** on a **Doordarshan Special Show** Vaanavil broadcasted all over Tamil Nadu.

## EDUCATION

### Rajiv Gandhi College of Engineering and Technology, Puducherry — *B.Tech. in Electronics and Communications Engineering*

MARCH 2013 - MAY 2017

Graduated **First Class** with a CGPA of **8.2 GPA**, Participated and **Won** several **Robotics Competitions** all over India, **Elected** as the **Secretary** of the **Institution of Electronics and Telecommunications Engineers** Organization and **Conducted** an **All India College Fest** with several technical and non-technical events such as robotics competitions and workshops.

### Carmel School Kuwait, Kuwait — *All India Senior School Certificate Examination*

MARCH 2009 - APRIL 2011

Graduated in the Computer Science stream with several participations in Quiz and Science competitions.

Consistently placed at **Top 3 positions** in Robotics competitions conducted by top government and private colleges all over India.

A few notable wins include,

- **1st place** in Robo Sumo in a National level Tech Fest at **VJTI, Mumbai**.
- **2nd place** in Project Demonstration in a National level Tech Fest at **PEC, Puducherry**.
- **3rd place** in Robo War in a National level Tech Fest at **GEC, Kerala**.

Shortlisted as one of the top 30 teams all over India for the **Bosch Hackathon** in 2017.

Published a research paper in the **International Journal of Science, Technology & Engineering (IJSTE)** titled "[Wireless Armed Robot for Surveillance and Reconnaissance Missions](#)".

The paper details all the **research, development, findings** and future scope of the **Interceptor V1 & V2**.

## KEY PROJECTS

### Video Stabilization Using Point Feature Matching | Jan 23

- **Objective:** This project aims to develop a computer vision solution to achieve a digital form of stabilization using simple OpenCV tools and optical flow.
- **Use Cases:** Action camera, Handheld, low-light and aerial footages, and Virtual Reality
- **Highlight:** Simple and effective on the fly solution for various scenarios

**Tech Stack:** Python, OpenCV, TensorFlow

### Covid - 19 Detection from X-rays using Transfer Learning | Oct 2021

- **Objective:** To develop an ML model that can accurately detect COVID-19 cases from chest X-rays.
- **Use Cases:** Assist healthcare professionals in quickly and accurately diagnosing many COVID-19 cases and providing appropriate treatment.
- **Highlight:** 98.05% Accuracy on the test set.

**Tech Stack:** Python, VGGNet-16, OpenCV, TensorFlow, Transfer Learning.

### Interceptor V2 | April 2017

- **Objective:** To develop an armed robot with an array of sensors, a camera for facial recognition, and a robotic arm for pick-and-place capabilities.
- **Use Cases:** To assist security personnel with surveillance and reconnaissance missions in military borders, Mass casualty situations, and other such critical situations.
- **Highlight:** Facial recognition Accuracy: 98%, Real-time multi-sensor input, live camera feed, robotic arm, all-terrain design, and remote control via a GUI onboard a Raspberry Pi and an Arduino Mega.

**Skills & Tech Stack:** Python, C++, Haar Cascades, OpenCV, Circuits, Actuators, and Sensor programming, Robot Prototyping.

\*Current projects and other repositories: [ [Github](#) ] [ [Kaggle](#) ]. Course certifications and Awards: [ [LinkedIn](#) ]