

Adarsh Raveendran



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Artificial Intelligence of Things & Edge Computing enthusiast with 10+ years of experience in Cloud, IoT, Hybrid Apps, DL/ML, MLOps, and Computer Vision technologies. Detail Oriented, Dedicated, and Dependable team player who also possesses strong analytical, organizational, problem-solving, presentation, communication, and project management skills, with the ability to manage multiple tasks/projects and work in a fast-paced schedule.

Experience

Safran Engineering Services

Team Leader

2020 – Now

Connected Enterprise Cloud Platform | 2022 – Now

- Work closely with AWS Data Lab & marketing team to develop resilient Architecture that meets business vision
- Develop architecture for enterprise cloud platform to bring multiple low power connected products(edge devices) to a single platform – AWS IoT, Kinesis, Glue, Redshift, EMR, Athena, EKS, Kubeflow, Sagemaker, MLOps
- Active participation in Service deployment, release standards development.
- Designed and optimized solution for edge devices deployed in remote location with limited connectivity
- Drive Data Engineering, MLOps and Backend teams – Active participation in code review and solution building

Sophy – Smart Trolley tracking | 2021 – Now

Displayed at AIX'22, Hamburg

- Drive and Manage AWS Cloud, Backend & Apps Team – NodeJS, Python, ReactJS/React Native, FastAPI, Spark
- Active participation in Design and execution during cloud migration – Containerization of services and migration
- Multi Region AWS Architecture Development for deployment and monitoring using EKS, ECR, Document DB, AppSync, AWS IoT Core, Kubernetes, Docker, GitOps, Kubeflow, Elastic Search, Grafana Code Pipeline
- Active Participation and Co-Development with AWS Data Lab for Cluster Security and Management
- Project Planning, Client/3rd Party Interaction & Implemented best coding practices - modularity and design patterns

Smart Trolley – Food Item Level Detection | 2020 – Now

- Active Participation and Management of R&D team working on Deep Learning, Embedded Systems & AWS Cloud
- Training Object Detection/OCR models on AWS for Intel MyriadX VPU deployment and Optimization of Edge Computing Inferences using OpenVINO and DepthAI
- Development and Deployment of CoAP server and AWS IoT integration
- EKS cluster development using CDK, Docker and NodeJS
- Led the engineering team in the end-to-end MLOps process
- Created Custom Model Training/OTA platform using AWS Sage Maker, Docker, EC2, GitOps, MLOps
- Development and Integration of Connected IFE App on Yocto running on Imx.8 using Docker, WebSockets, CoAP
- Project planning, Code Review, Rapid Prototyping, and Demonstration

Bin Sight – Smart Aircraft Bin | 2019 – 2021

Displayed at AIX'19, Hamburg

- Cloud Architecture and Infrastructure Development – AWS IoT, SageMaker, DynamoDB, Kinesis, Elastic Search, Code Pipeline, Step Functions, API Gateway, Event Bridge, DevOps
- Integration and Development of AWS Greengrass environment, Using MQTT and Web Sockets
- Implemented OTA, Developed Multiple Web portals using NodeJS, Python Flask and JavaScript, FastAPI
- Wrote Proprietary algorithms for Smart Bag allocation & Lidar Mapping
- Worked on Reprojection of 2D points to 3D using OpenCV

Alpha-Numero

Senior Software Engineer

2019 – 2020

Was deployed at client site - Safran Engineering Services
Worked on AWS IoT Related Projects – Later Client(Safran) Absorbed Me

Freelance Consultant & Trainer

2017 – 2019

- Design and Development of NLP based Text Summarizer using AWS SageMaker and Finetuned the model
- Developed School management system for monitoring student's performance using Regression & Classification models by analysing Historical Data and Emotion Recognition on AWS, Raspberry Pi & NCS2
- Developed face classification using OpenCV & SVM and deployed on Raspberry Pi
- Developed a FAQ chatbot using Python, NLTK, Wit.ai, Heroku & Interfaced with FB Messenger
- Designed a Self Driving Car using OpenCV, CNN, Haar Cascading
- Delivered many Corporate and Academic trainings on Machine Learning, Data Science and IoT

Entrench Electronics Pvt. Ltd.

Software Engineer

2015 – 2017

- Prototyped Lowpower/narrowband pluggable device attachment and gateway to monitor Analog Gas metre reading using AWS IoT, AWS Lambda, DynamoDB, Hall Effect sensor, ESP32, SIM900 & NodeJS and Android
- Prototype development of firefighting robot using Raspberry Pi, Thermal Camera, and actuators.
- Designed and Tested Proprietary development boards

Times Globacom Pvt. Ltd.

Embedded Engineer

2014 – 2015

- Developed web based fully Interactive training module using Adobe Flash/HTML/JavaScript
- Prototyping WiFi based development boards using AVR, Android, ESP826
- Developed Drones using KK Multi Copter2.0 , Android BLE app and Embedded System

Robosapiens Technologies Pvt. Ltd.

Research Engineer

2013 – 2014

- Developed and tested companies hardware's and training modules
- Wrote project documentation for companies ecommerce website
- Provided Customer support on projects purchased through online portal
- Delivered Training sessions in Premier Institutes

Education

Anna University of Technology, Chennai.

BE Electronics and Communication Engineering

2009 – 2013

- Developed gesture controlled robot using Matlab Image Processing, Bluetooth and ATmega8
- Created Self Balancing robot using Arduino, Accelerometer and Gyroscope
- Organized many technical workshops and delivered workshops on Arduino
- Participated in Windows Phone Development Hackathon Organized by Microsoft

[Familiar Technologies]

Languages:

- Python, Java Script, Java, C

Database:

- DynamoDB, Document DB, MongoDB
- PostgreSQL, MySQL

Cloud:

- AWS
- Azure

DevOps:

- Git, Docker, Kubernetes,
- Terraform, CDK
- GitOps, ArgoCD, Flux
- Jenkins

ML/DL Frameworks/Optimization:

- TensorFlow, Pytorch
- Keras, OpenVINO

Computer Vision:

- OpenCV, SimpleCV
- Scikit-Image
- Amazon Rekognition

Data Visualization:

- D3.js
- Python(Matplotlib, Seaborn, Plotly)

Web/Mobile:

- NodeJS, Django, Flask
- React, Vue.js
- React Native, Android

Embedded MCU's:

- ESP32,STM32, ATmega8
- Intel MyriadX – VPU
- Intel Keem bay
- Raspberry Pi, NVIDIA Jetson Nano

Embedded Development:

- Amazon FreeRTOS
- ESP IDF
- Yocto Project

IoT Platforms:

- AWS IoT Core, Azure IoT
- IBM Bluemix

IoT Protocols:

- MQTT, CoAP
- LoraWAN
- 802.15.4 (LR - WPAN)

[Personal Details]

Gender: Male

DOB: 10th November 1990

Languages Known: English, Malayalam
Hindi, Tamil

