PUNID RAMESH

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Education

Vellore Institute of Technology (B.Tech) **9.07**
ECE with Specialization in Internet of Things and Sensors *2018 – Present*

Bangalore International Academy (CBSE) **93.2%**
Higher Secondary; Bangalore, India *2016 – 2018*

Ryan International School (ICSE) **92.6%**
Matriculation; Bangalore, India *2004 – 2016*

Experience

Reliance Jio **Remote**
Software Engineer Intern *Aug 2021 - Present*

- Developing a scalable backend system for Energy Metering
- **Utilizing :** Kafka, React, Express, MongoDB, NodeJS, OPC-UA

KFX Labs **Remote**
Internet Of Things Engineer Intern *Nov 2020 - Dec 2020*

- Automated actuation via edge analytics on realtime seismic sensor data and visualization on Grafana.
- The solution serves as a basis for the company to expand as a platform for critical asset monitoring.
- **Utilized:** EdgeX Framework, Docker, GoLang, Python, Telegraf, InfluxDB, Grafana, GCP

Skill Set

- **Languages** : Python, Java
- **Technologies** : Django, Bootstrap, Flask, AWS, PostgreSQL, Docker, PyTorch, EdgeX
- **Protocols** : MQTT, OPC-UA

Certifications

- **AWS Certified Solutions Architect - Associate:** AWS Certification that validates cloud experience.
- **Deep Learning Nanodegree:** Nanodegree program for Deep Learning using PyTorch and AWS on Udacity.

Projects

Morax **Click, Flask, OAuth2.0, Coinbase APIs**
This project aims to provide a CLI tool to fetch account wallet data using Coinbase APIs authenticated via OAuth 2.0. Realtime coin price is visualized as a graph using data from Nomics API.

Artemis **Bootstrap, Django, PostgreSQL, Heroku**
This is a website that provides realtime data on the spread of the Coronavirus. It supports data visualizations on the daily updates for easy analysis of trends.

Utilization of Embedded Systems for Smart Farming **Node-RED, Firebase RTDB, NodeMCU**
This project is a collaboration with the Electronics and Agricultural department of VIT. It aims to automate tasks in a farm, provide smart feedback and alerts to farmers and fully operate on renewable resources.

Publications

[1] Chavhan, S., Ramesh, P., Chhabra, R.R.S., Gupta, D., Khanna, A. and Rodrigues, J.J., 2020, September. Visualization and performance analysis on 5G network slicing for drones. In Proceedings of the 2nd ACM MobiCom Workshop on Drone Assisted Wireless Communications for 5G and Beyond (pp. 13-19). Link
[2] Proposed Experimental Design of a Portable COVID-19 Screening Device Using Cough Audio Samples [Under Review]