

# PUNID RAMESH

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🌐 <https://github.com/punidramesh>

🌐 <https://punidramesh.tech>

## EXPERIENCE

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### Reliance Jio

Software Engineer Intern

Remote

Aug 2021 - Present

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

### KFX Labs

Internet Of Things Engineer Intern

Remote

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

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

## PROJECTS

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### 🔗 Morax

Click, Flask, OAuth2.0, Coinbase APIs

A CLI tool to fetch account wallet data using Coinbase APIs authenticated via OAuth 2.0. Real-time coin price is visualized as a graph using data from Nomics API.

### 🔗 Artemis

Bootstrap, Django, PostgreSQL, Heroku

A website providing real-time 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

A collaboration project with the Electronics and Agricultural department of VIT, aiming to automate tasks in a farm, provide smart feedback and alerts to farmers and fully operate on renewable resources.

## CERTIFICATIONS

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- **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.

## PUBLICATIONS

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[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]

## EDUCATION

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### Vellore Institute of Technology (B.Tech)

ECE with Specialization in Internet of Things and Sensors

9.07

2018 - Present

### Bangalore International Academy (CBSE)

Higher Secondary; Bangalore, India

93.2%

2016 - 2018

### Ryan International School (ICSE)

Matriculation; Bangalore, India

92.6%

2004 - 2016

## EXTRACURRICULAR

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### • DSC VIT Powered by Google Developers

Organized hackathons and events

### • Team Sammard

PCB designer for the CANSAT 2020 competition organized by the American Astronautical Society