Rithvik Nishad

Software Developer & Electrical Engineer

Passionate about creating scalable and distributed systems for the power grid and contributing to open source digital public goods.

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EDUCATION

B. Tech Electrical & Electronics Engineering
Vellore Institute of Technology

07/2019 - Present   *Chennai, India*

Higher Secondary
Chinmaya Vidyalaya

04/2017 - 04/2019   *Kannur, India*

PROJECTS

Vaidyuti - A Decentralized and Autonomous Energy Grid Management System (01/2022 - Present)
- Our goal is to accelerate distributed generation and microgrids while ensuring maximum uptime and reliability. Vaidyuti protocol is being built to handle peer-to-peer energy and cash flow transactions between prosumers, in the most efficient and optimal way.

OsumPi (07/2020 - 12/2021) ↗
- A Service-Oriented Architecture-based **IoT Ecosystem Automation & Management Framework**. Deploy services and run recipes smartly.

IoT based DC-DC Converter (08/2021 - Present) ↗
- Broadcast power converter performance data from Simulink to MQTT ecosystem using Mosquitto, and remote monitoring using Node-RED .

Electrical Issues Tracking Platform for VITCC (09/2021 - 01/2022) ↗
- A platform to raise electrical issues in Vellore Institute of Technology, Chennai built using the Flutter framework.

Smart Junction (07/2017 - 12/2018)
- System designed to reduce average waiting time of vehicles by intelligently managing traffic flow based on priority.

EXPERIENCE

National Software Engineering Fellowship
Pupilfirst & AICTE ↗

01/2022 - 09/2022   *India*

Deputed to eGovernments Foundation to work on the Tele-ICU tooling for the 10bedICU project

- Learn industry-standard practices for programming and product development.
- Strengthen Python and Typescript skills.
- Experience with Databases and how to operate them.
- Fundamentals of React, Typescript, and the Django Framework.
- Building modern applications with the Django Web Framework.
- Deployment and Scaling Web Applications.

SKILLS

Web Dev (React, Tailwind, NextJS, Django, FastAPI)

App Dev (Flutter)   Docker

Cloud (Vercel, Firebase, Heroku)   Git

MATLAB & Simulink   MQTT   Node-RED

LTSpice   Arduino   ESP   Raspberry Pi

ACHIEVEMENTS

Cyber Security Competition (09/2019)
*Secured **1st Position** in a 48 hour Cyber Security Competition as a team of two members.*

SOF Cyber Olympiad (12/2018)
International Rank 10 and Zonal Rank 1 in Science Olympiad Foundation's Cyber Olympiad Competition.

CBSE National Science Exhibition (02/2018)
*Secured **3rd Position** for showcasing **Smart Junction** concept project as a team of two members.*

SOF Cyber Olympiad (12/2017)
International Rank 106 in Science Olympiad Foundation's Cyber Olympiad Competition.

LANGUAGES

English
Full Professional Proficiency

Malayalam
Native or Bilingual Proficiency

PROGRAMMING LANGUAGES

Python   Dart   Typescript   Javascript

C   C++   Verilog   Bash   MATLAB