

Jayanth Kumar

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD (IIT)

BACHELOR OF ENGINEERING (HONS.) COMPUTER SCIENCE

August 2019 - May 2023 | Kerala, India

EXPERIENCE

ARISTA NETWORKS INC. | SOFTWARE ENGINEER

Jan 2023 - Present | Bengaluru, Karnataka

- Developing a Health Monitoring System for Access Points and Routers to check on the Kernel space and user space health like the zones temperatures, voltage, cpu clock cycles, cache misses, various aspects of memory utilisation like (un)reclaimable memory, memory fragmentation, per slab memory usage, Interrupts on CPU core level etc.
- Also, worked on various monitoring various aspects of the processes developed within company like per process cpu utilization, RSS, FDs, handling Process Deadlocks, Memory Leaks, etc.
- Built Programs to ensure VAPs configurations pushed by the user from the cloud are being reflected on the Access Points and Routers remotely.
- Designed kernel and user space thread deadlocks detection and recovery mechanism to remediate the deadlocks.

TEXAS INSTRUMENTS INC. | APPLICATION DEVELOPER

May 2022 - July 2022 | Bengaluru, Karnataka

- Worked on developing a **Finance Application** from scratch directly poignant to the TI customers from **10+ countries** and the Finance Team of TI. With totally different countries having different requirements and financial rules, I have tackled down each one them. I went through weekly **business conferences** to update the work flow and acquire new requirements according to the customers and the countries we are dealing with.
- I was offered a **Promotion** at the end of 2 months for my contribution

TVS MOTOR CORP | FULL STACK DEVELOPER

Aug 2020 - Nov 2020 | Hosur, Tamil Nadu

- I developed a real-time dashboard interface, using **Flask, React**, and **SQL** integrated with Deep Learning Modules and Camera Modules to visualise and examine motor-cycle fragments stratification work-flow.
- I engineered an employee interface to supervise **industrial machinery** to continuously study and inspect metrics in order to record various operations performed in parallel using **Django, React**, and **SQL** in the workplace.
- I **orchestrated** my fellow colleagues to work on very **sensitive backend** code where a value modification in machine directs to a change of state of other machines.

SURVEY BUDDY | FRONTEND DEVELOPER

Jan 2021 - Mar 2021 | Virtual, India

- Engineered a real-time **Survey Responses Encoding framework** where a user can process survey responses by sorting and filtering with default filters or search keywords and designate a common codeword to multiple responses in turn converting the survey responses into a precious dataset.
- **Tech-Stack** - UI Design, Twilio API, Google Authentication API, Sockets, MongoDB, Amazon S3, ExpressJS, NodeJS, React, AWS

SKILLS

FRONTEND

• ReactJS • Redux • Thymeleaf • Flutter

BACKEND

• NodeJS • Django • Flask • Spring Boot

DATABASES

• MongoDB • PostgreSQL • Firestore

MACHINE LEARNING:

• scikit-learn • Tensorflow • OpenCV • nltk

DEPLOYMENTS

• Heroku • AWS • Firebase • Jenkins

AWARDS

In 2023

• National Vision & AI Technology Hackathon **Rank 1**

• National Inter IIT Tech Meet,

Overall **Rank 11**

In 2022

• Smart India Hackathon **Finalist**

TRAVEL &

CONFERENCE GRANTS

2023 Kanpur, Inter IIT Tech Meet 4.0

2022 IIT Madras, Vision & AI Technology Industry 4.0 Summit

2022 Smart India Hackathon Finals

PROJECTS

TRAFFIC SIGN RECOGNITION MODULE FOR SELF DRIVING VEHICLES

• Incorporated more than 50,000 pix in 43 classes of road signs. Re-factored VGG16 Model Neuron level to attain a testing multi-class classification accuracy of **98%**

REALTIME E-COMMERCE WEBSITE

• Built on Realtime Firestore, GAuth, Redux, Material UI and payment Gateway is carried out using Stripe API.

FULL STACK USER-AUTHENTICATION BUILD

• User registration with **JWT authentication** and user management.

HOBBIES

Street Photography & Ad Film-making
Football