Pavan Kumar D

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-- Education --

K S Institute of Technology   **Bengaluru, India**
- **Candidate for Bachelor of Engineering – Computer Science**   *August 2020 (Exp)*

-- Skills --

- **Programming Skills: JavaScript** (Web, Full Stack), **Ruby** (Web, Full Stack), **Core Java**, **Python**
- **Frameworks/Libraries:** Node.JS, React.JS, Express.JS, Ruby on Rails, Docker
- **Technical Skills: System Design**, **IoT Product** Development, **DevOps** (AWS, GCP) and **Academic Research**

-- Work Experience --

Syook   **Indiranagar, Bengaluru, India**
Intern, Software Engineer, DevOps   *Dec 2018 – Present*
- Migrated the entire existing deployment process to a **Docker** environment, **automated the deployments** and also reduced the **down time to almost none.** Also, setup the same with a **CI and CD** pipeline using **Gitlab, Jira** and **more.**
- Implemented an **automated daily DB backup service** which enabled timely recovery in **case of disaster** and also saved **an hour of time being spent** on manual backups**.**

Syook   **Jayanagar, Bengaluru, India**
Intern, Software Engineer, IoT   *Dec 2017 – Present*
- Worked along a team of five on designing an **end-to-end IoT platform** by improving the **network security** for the existing product by **two folds.**
- Built a centralised **Rules Engine** that **improved** user monitoring operations for the customers using the service offering.
- Designed and built a **Virtual IoT Gateway from scratch** to improve the processing of **incoming data by 75%** from the nodes which also improved **10 times** (in production). **Battle tested** the same gateway to withstand **1000 nodes** (after we which did not test)

-- Project Work --

Shop Analytics (Team)   **Python, Node.js, IoT, ML**
- Designed and implemented a product that can provide **in-store analytics REST APIs** to the decision maker helping in improving the **efficiency** of the store. Implemented **automated machine learning** process for the same.
- The application used **memory caching, local storage caching** and **data pipelines** to fasten the process

Online Coding Platform (Individual)   **Ruby on Rails, JavaScript, Docker, GCP**
- Architected and implemented the **backend** for an **online code writing** application for **DCT Academy,** currently being **used by over 1000 students.**
- Designed a data warehouse that **combined multiple databases** greatly simplifying the student assessment process and program compilation.

Smart Restaurant (Team)   **React Native, Node.js, React.js**
- Built a **QR code-based** reservation, **contact-less** food ordering mobile application for **small restaurants.**
- **Live-tested** the app with **food courts** and **cafes** at our college**.** Received **positive feedback** for the same**.**

-- Achievements --

- **Winner - Smart India Hackathon (Ministry of Power)** out of **10000 participants** for designing   *(Mar 2019)* a solution for efficient distribution of subsidised power**.**
- **Represented India** at the **Singapore India International Hackathon** at IIT Madras. My team   *(Sep 2019)* was in the **top three**.