J KESHAV BHUPATHY VIGNESH

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○ DETAILS ○

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○ LINKS ○

www.keshavvignesh.com

linkedin.com/in/jkeshav-bvignesh

github.com/jkeshav-bvignesh

○ SKILLS ○

Python

HTML/CSS/JavaScript

C/C++

Django

Flask

Robot Operating System (ROS)

PostgreSQL, MySQL

ZeroMQ

Docker

Postman

Jenkins

Qt Designer

○ LANGUAGES ○

English

Tamil

Malayalam

○ HOBBIES ○

Film-making
Magic
Graphics / Visual FX

💼 EMPLOYMENT HISTORY

Associate Consultant at Wipro Limited, Bengaluru, India

July 2018 — Present

- Part of a team that developed a software platform - a collection of **reusable Python libraries and micro-services** - that could be used to prototype, test and deploy Robotic use cases, agnostic of the actual hardware
  - Created various **REST API** endpoints and also automated testing using **Postman**
  - Implemented the **communication framework** for the platform using **ZeroMQ**
  - Automated the build-test-deploy cycle of the development using **Jenkins** to reduce development testing time
  - Created detailed architecture design diagrams for the system
  - Developed the platform core using concepts such as **design patterns** and **Dependency Injection**

- Proposed and developed a **GUI based Calibration tool** that simplifies the manual workflow involved in Robot Hand-eye calibration and **reduces the process time** from 3 hours to 15 minutes
- Routinely presented new ideas, tools and software design principles to the team with the help of demos and small Proof of Concepts

Project Engineer at Wipro Limited, Bengaluru, India

July 2018 — June 2018

- Part of a **Mobile Manipulator Robot** Project for a Retail/Warehouse use-case
  - Developed a system that communicates with the various sensor nodes of the Robot, using ROS, and makes future decisions
  - Developed a **Web based Monitoring and Control System** to trigger actions and get sensor and status data via **REST APIs**
  - Setup the MySQL database and integrated the same with the decision system

- Developed a **ROS compatible Simulation Framework** for one of the Robot applications which is used to execute and test individual modules
- Refactoring Legacy Codebase to improve maintainability and porting modules from C++ to Python

🎓 EDUCATION

B.Tech in Computer Science and Engineering, Vellore Insitute of Technology, Chennai, India

June 2014 — March 2018

- CGPA - 9.23 / 10.00
- Rank - 10/216

📊 PERSONAL PROJECTS

- A physical chessboard that the user can play with, without the need of an opponent. The opponent pieces move by themselves. There are no visible moving mechanisms
- Intelligent Home Energy Management and Temperature Control System