

# Vinay Sharma

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## EDUCATION

### THE LNM INSTITUTE OF INFORMATION TECHNOLOGY

BTECH IN COMPUTER SCIENCE

July 2019, CGPA: 7.02 | Jaipur, India

### DELHI PUBLIC SCHOOL

Indirapuram, Delhi NCR

Science | Percentage: 92.75

## LINKS

Github:// [vinay0410](#)

LinkedIn:// [vinay0410](#)

## OPEN SOURCE

Python (shared\_memory, tests)

JdeRobot (GSoC)

OpenCV (imgcodecs, tests)

## SKILLS

- C • C++ • Python • OOP
- Unit, Integration, Data Driven Testing
- IPC using Shared Memory
- Docker

### FRAMEWORKS/LIBRARIES:

- aiohttp • asyncio
- unittest • Pyramid (minor exp.)

### TOOLS:

- Swagger
- Postman for Integration Testing
- Elasticsearch • MongoDB • Redis
- PostgreSQL (minor exp.)
- Nginx (minor exp.)

## RESPONSIBILITIES

- Co-ordinator, Robotics Club
- Event Head (Robotics LFR) at Plinth (Techno-Management Fest)

## REFERENCES

Dr. José María Cañas Plaza

Org Admin, JdeRobot

Associate Professor,

Universidad Rey Juan Carlos, Spain

[Letter Of Recommendation](#)

Mr. Sandeep Saini

Assistant Professor, LNMIIT

Faculty Guide Phoenix (Robotics) Club

[Letter Of Recommendation](#)

## EXPERIENCE / INTERNSHIPS

### INNOVACER | SOFTWARE DEVELOPMENT ENGINEER

July 2019 - Present | Noida, India

- Designed and implemented custom full text search using Elasticsearch on millions of documents.
- Improved speed of time critical APIs by caching using Redis, and configured eviction policies.

### INNOVACER | SOFTWARE DEVELOPMENT INTERN

Jan 2019 - July 2019 | Noida, India

- Built and deployed an end to end backend service from scratch using **aiohttp** and **asyncio** in **Python**, **MongoDB**, **shared memory** for IPC, **OpenAPI** for Request Validation, **Postman** for Integration Testing and **mypy** for type checking.
- Designed a GraphQL like JSON spec for querying PostgreSQL, supporting joins, filters and aggregations. Wrote a Query builder and an analyzer to get frequency of joins, filters and aggregations on columns.

### GOOGLE SUMMER OF CODE 2019 | MENTOR | JDEROBOT

May 2019 - Aug 2019

- Mentored in building a tool to label datasets using deep learning inferencers, which significantly helped the community to generate datasets faster.

### GOOGLE SUMMER OF CODE 2018 | STUDENT | JDEROBOT

May 2018 - Aug 2018

- Developed a Tool to View, Convert and Evaluate Datasets for a particular inferencer using a particular framework such as TensorFlow, Darknet and Keras.
- This tool significantly helped the Deep Learning Community to evaluate and deploy networks as a ROS node.

## ACHIEVEMENTS

- Received **Innovacer Champion of the Quarter award** for building **Query Engine, Centralized Survey service** and integrating Swagger / Postman for Request Validation / Testing.
- **Zonal level winner** and **national level participant** among **Top 30** teams at **DRUSE conducted by DRDO** out of **1100 teams** from **786 colleges**.
- **Final stage participant** at the **eYantra Robotics Competition 2016** conducted by IIT Bombay, among **Top 37 teams** out of **5,652**.
- Selected as a student at Interviewbit Academy, among **Top 300** shortlisted from **9000**.

## PROJECTS

### JDEROBOT'S DETECTIONSUITE | [JdeRobot/DetectionSuite](#)

Mentor: [Dr. José María Cañas Plaza](#) | [Project Report](#)

Improved DetectionSuite by adding parsing support for widely recognized datasets such as COCO, Pascal VOC and Imagenet along with frameworks namely TensorFlow, Darknet and Keras, enabling users to deploy and evaluate a model on supported datasets using supported frameworks.

### PIZZA DELIVERY WEBAPP | [vinay0410/Pizza](#)

Mentor: [Dr. Narsi Bolloju](#)

A webapp which handles multiple types of users namely Admin, Supervisor, Chef and Delivery Staff and co-ordinates between them, to result in efficient delivery. Users can get real time updates of their order, including live tracking of delivery on road.