

# Vinay Sharma

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## EDUCATION

### THE LNM INSTITUTE OF INFORMATION TECHNOLOGY

#### BTECH IN COMPUTER SCIENCE

July 2019 | Jaipur, India

## LINKS

Github:// [vinay0410](#)

Codeforces:// [atom0410](#)

Codechef:// [vincode](#)

LinkedIn:// [vinay0410](#)

## OPEN SOURCE

[Python \(shared\\_memory, tests\)](#)

[JdeRobot \(GSoC\)](#)

[OpenCV \(imgcodecs, tests\)](#)

## SKILLS

### LANGUAGES

• C • C++ • Python

### OS

• Ubuntu • MacOS

### DATABASES / SEARCH INDEXES:

• Elasticsearch • PostgreSQL  
• Redis • MongoDB (basic)

### FRAMEWORKS / TOOLS:

• mypy • aiohttp • asyncio  
• unittest • Docker  
• OpenAPI • Postman  
• New Relic • nginx (basic)

### OTHERS:

• GitHub • GitLab  
• SonarQube • Jenkins • Jira

## 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

[Letter Of Recommendation](#)

## EXPERIENCE

### INNOVACCER | SOFTWARE DEVELOPMENT ENGINEER

July 2019 - Present | Noida, India

- Migrated custom full text search API with custom filtering from **ElasticSearch** to **PostgreSQL** and increased performance of the same by **50%**, using BTrees and functional indexes.
- Improved speed of time critical APIs by caching using **Redis**, which improved average response time by **40x** as measured by New Relic.
- Built custom full text search using **ElasticSearch** on millions of documents, with a custom scoring algorithm which increased relevance as measured by Mix Panel.
- Became **point of contact** of a service collecting feedback centrally from all tenants.

### INNOVACCER | 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 **Innovaccer Champion of the Quarter** award for building **Query Engine, Centralized Survey service**.
- **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 (Scaler) 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.