

## EDUCATION

### THE LNM INSTITUTE OF INFORMATION TECHNOLOGY

#### BTECH IN COMPUTER SCIENCE

July 2015 - July 2019 | Jaipur, India

CGPA: 7.0

### DELHI PUBLIC SCHOOL

Indirapuram, Delhi NCR

Science | Percentage (EPCM): 92.75

## LINKS

Github:// [vinay0410](#)

Codeforces:// [atom0410](#)  
**Candidate Master** (Top 1.5% in India)

Codechef:// [vincode](#)  
**5 star** (Top 0.3% in India)

LinkedIn:// [vinay0410](#)

## OPEN SOURCE

## CONTRIBUTION

[Python \(shared\\_memory, tests\)](#)  
[JdeRobot \(GSoC\)](#)  
[OpenCV \(imgcodecs, tests\)](#)

## SKILLS

### LANGUAGES

• C • C++ • Python

### OS

• Ubuntu • MacOS

### DATABASES / SEARCH INDEXES:

• Elasticsearch • PostgreSQL  
• Redis

### FRAMEWORKS / TOOLS:

• mypy • aiohttp • asyncio  
• unittest • Docker  
• OpenAPI • Postman

## 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

### AMAZON | SDE | SPONSORED PRODUCTS/ADS TEAM

Nov 2020 - Present | Bangalore, India

- Built a Caching mechanism from scratch for Relevance Scoring cutting computation cost by **10x**.
- Worked on Design & Implementation of a low latency (**25 ms**) Ad serving pipeline to launch a new ad inventory for sellers, as a part of Advertising team working on Sponsored Products for Amazon India Marketplace.

### INNOVACER | SDE | PATIENT SEARCH TEAM

July 2019 - Nov 2020 | Noida, India

- Became **single point of contact** of a service collecting feedback centrally from all tenants, because of pro-active ownership and maintenance efforts.
- 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.

### 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.

### 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 | INTERN | 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 twice.
- 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.