Vinay Sharma

vinay0410sharma@gmail.com | +91 9810340897

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

OPERATING SYSTEMS
- 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 / INTERNSHIPS

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 anaylzer 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.