

# Kartheek Surampudi

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## PROFESSIONAL SUMMARY

Happy coder and open source contributor. Experienced in building and facilitating end-to-end ML pipelines. In-depth knowledge and use of software technologies to include Python. Extreme attention to detail and ability to multitask within fast-paced environments.

## SKILLS

**Programming Languages:** Python, C++, Java  
**Machine Learning:** ONNX, Tensorflow, PyTorch, OpenCV, Pandas  
**Databases:** Postgres SQL, DynamoDB, Rockset  
**Web Technologies:** Django, Node.js, RESTful APIs, FastAPI  
**Deployment:** Docker, Kubernetes, Microsoft Azure  
**DevOps:** Github Actions, Kubeflow

## EXPERIENCE

Sep. 2021 – Present  
Remote

### Senior Machine Learning Engineer, ScaleTorch

- Architected and implemented key services to include, the core of the platform that handles concurrent ML training experiments across clouds.
- Lead the team that built services to facilitate fault-tolerant ML training workloads across clouds and regions.
- Built a data streaming engine to move training data around economically.

Apr. 2021 – Sep. 2021  
Hyderabad, Telangana

### IVA Engineer, SmartCow

- Working on Nvidia Jetson Devices
- Building streamlined applications that bring AI to the edge.

Jun. 2019 – Oct. 2019  
Hyderabad, Telangana

### Machine Learning Intern (Remote), AITS

- Worked on deepC- a framework for deploying neural nets for edge devices.
- Implemented ONNX operators
- C++ and Python Integration with Swig

Jun. 2019 – Aug. 2019  
Hyderabad, Telangana

### Python Intern (Remote), cppsecrets.com

- Developed a Disk Health Monitoring system based on SMARTCTL which can scale up to thousands of systems in a network.
- Wrote articles on python and machine learning.

May. 2019 – Jun. 2019  
Hyderabad, Telangana

### Software Developer Intern, DRDL

- Worked on and maintained the production side of a huge database of defense employees.

- Fixed issues across multiple packages in both frontend(JSP) and backend(Java).
- Traced out rare and problematic bugs.

## PROJECTS

### COVID-Kicker

*Python, Tensorflow, Kubeflow, MS Azure*

COVID-Kicker is a deep learning-powered REST API that detects COVID-19 from X-Ray images. A Kubeflow pipeline automatically re-trains the model periodically to keep up with the data.

### pyParallelMR

*Python*

pyParallelMR leverages the fact that greater speeds in computation can be achieved using more memory. It is a simple queue based map reduce engine which executes tasks in a batch wise parallel manner. The project can be found [here](#).

### Presence: Facial Recognition based attendance system

*Python, Django, OpenCV, MS Azure, Android*

Presence is a facial recognition-based attendance tracker meant for schools and colleges. A teacher has to take a picture of the class instead of calling each student's name. The [demo](#) can provide further details.

### Disk Health Monitoring System

*Python, Smartmontools*

This project is an "all-python" solution to monitor the disk behavior of a set of computers(all if required) in a network. This application was built on top of the smartctl utility by smartmontools. The [demo](#) can provide further details.

## EDUCATION

*Jun. 2021*

### Bachelor of Technology: Information Technology

- Swami Vivekananda Institute of Technology - Hyderabad, Telangana

## ACCOMPLISHMENTS

- Finished in top 3 among hundreds of teams across multiple themes in the [MishMash Hackathon](#).
- Won first place out of 20 teams in a 24-hour hackathon at IEEE Fest by developing a shopping cart website that sorts products based on reviews (NLP).
- Selected as one of 50 teams statewide for a project expo for innovative ideas to solve real-world problems.

## CERTIFICATIONS

- **Machine Learning Engineer Nanodegree** by Udacity
- **Deep Learning Specialization (5 courses)** by Coursera
- **Advanced Python** by LinkedIn
- **Intel® Edge AI Scholarship Foundation Course Nanodegree Program** by Udacity
- **Applied AI with DeepLearning** by IBM
- **VSD - Machine Intelligence in EDA/CAD** by Udemy

## WEBSITES AND OTHER LINKS

- Github - <https://github.com/k4rth33k>
- LinkedIn - <https://www.linkedin.com/in/kartheek-surampudi-0a535a163/>
- Portfolio - <https://k4rth33k.github.io/>