Kartheek Surampudi

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PROFESSIONAL SUMMARY

Happy coder and open source contributor with a bachelor's degree in IT coming up in 2021. In-depth knowledge and use of software technologies to include C++, Python. Extreme attention to detail and ability to multitask within fast-paced environments.

EMPLOYMENT HISTORY

Machine Learning Engineer (Remote), AITS. Milpitas, California

Jun. 2019 – Oct. 2019

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

Python Developer (Remote), cppsecrets.com. Hyderabad, Telangana

Jun. 2019 – Aug. 2019

- 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.

Software Developer Intern, DRDL. Hyderabad, Telangana

May. 2019 – Jun. 2019

- 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.

SKILLS

- **Programming Languages:** Python, C, C++, Java
- **Machine Learning:** ONNX, Tensorflow, PyTorch, OpenCV, Pandas
- **Databases:** SQL, MongoDB, PostgreSQL, Oracle SQL
- **Web Technologies:** Django, Node.js, HTML, CSS, RESTful APIs, Reactjs
- **Deployment:** Docker, Kubernetes, Microsoft Azure
- **DevOps**: Github Actions, Kubeflow

PROJECTS

COVID-Kicker
Technologies Used: Python, Tensorflow, Kubeflow, Azure
Description:
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. This API is live.

Presence (Facial Recognition based attendance system)
Technologies Used: Python, Django, OpenCV, Azure, Android
Description:
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 based on SMARTCTL
Role: Python Developer
Technologies Used: Python, Smartmon Tools
Description:
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.

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

EDUCATION

Swami Vivekananda Institute of Technology, Hyderabad, Telangana

Bachelor of Technology, Information Technology, Present

ACCOMPLISHMENTS

- 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.
- Finished in top 3 (team: binarySunset) among hundreds of teams across multiple themes in the MishMash Hackathon.

WEBSITES AND OTHER LINKS

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