**OCTOBER 2021 – PRESENT** 

JUNE 2021 – OCTOBER 2021

MAY 2020 - AUGUST 2020

#### WORK EXPERIENCE

## VERILY (GOOGLE) LIFE SCIENCES – MOUNTAIN VIEW, CA

#### Software Engineer III

- Led the implementation of a modular rollouts system in Study Builder, enabling study designers to publish independent pieces of configurations, improving scalability and efficiency.
- Designed and built a new data model for the Schedule of Events architecture, simplifying how trial protocols are • configured and supported on the platform, reducing workload by 40% during the study onboarding process.
- Developed back-end services that store and serve these published study configurations to the rest of the platform. •
- Achieved 90% test coverage with a robust integration test suite, reducing bugs and enhancing development reliability.

# JUNIPER NETWORKS - BOSTON, MA

## Software Engineer

- Improved out of box experience of 128T routers by re-hauling UI to provide easy to understand view of applications running on the router.
- Deployed APIs to classify more than 90% of traffic on the routers while providing detailed analytics on the application rx/tx bandwidth, time to first packet and retransmission counts.

# FRACTAL ANALYTICS INC. - NEW YORK, NEW YORK

# Software Engineer Intern, Machine Learning

- Developed tool to perform object detection using PyTorch on real-time drone footage to detect if social distancing protocols are being followed as part of public health guidelines.
- Increased Average Precision (mAP) by 35% while benchmarking on the ImageNet and VisDrone datasets with an Intersection over Union (IoU) threshold of 70%.

# **CMS COMPUTERS LTD – MUMBAI, INDIA**

## Software Engineer Intern, Machine Learning

- Developed a smart-parking application using Caffe that **performed vehicle detection and classification** to accurately estimate the number of vehicles that can be accommodated in an open parking space.
- The results of the application deployed in the city of Mumbai showcased a 91% accuracy while classifying vehicles and reduced average time waiting for a parking spot by 45%.

## **TECHNICAL SKILLS**

LANGUAGES: Python, Java, C++, JavaScript, Go

FRAMEWORKS: React, AngularJS, VueJs, jQuery, Node.js, Express.js, Redis

TECHNOLOGIES: Android, Maven, MySQL, MongoDB, Docker, Kubernetes (with Kustomization), Git

ML LIBRARIES: Numpy, PyTorch, TensorFlow, Scikit-learn, Pandas, NLTK

## PROJECTS

## **COVID-19 TRACKER**

- Created data aggregation platform using Java, Apache Kafka and Spark to process streams of COVID-19 data from multiple sources into a unified tracking dashboard built using React.
- Deployed various components as microservices using Docker and Kubernetes. •

#### **ENIGMA**

- Built and launched the backend ecosystem of a global cryptic challenge that has hosted over 10,000 users, using Node.js and MongoDb.
- Led a team of 4 developers to engineer regression models for performing tasks such as cheating prediction and awarding bonus hints for users.

#### **EDUCATION**

## **UNIVERSITY OF MASSACHUSETTS, AMHERST**

M.S. COMPUTER SCIENCE | GPA: 3.9/4.0

GRADUATE COURSEWORK: Neural Networks, Machine Learning, Applied Statistics, Database Implementation and Design **VELLORE INSTITUTE OF TECHNOLOGY, VELLORE** JULY 2015 - MAY 2019

B.E. COMPUTER SCIENCE AND ENGINEERING | GPA: 3.9/4.0

UNDERGRADUATE COURSEWORK: Data Structures and Algorithms, Parallel and Distributed Systems

JUNE 2017 - AUGUST 2017

Sept 2019 - May 2021