

NAVNEET RAJU C

Student Developer

A budding student developer looking towards opportunities in full stack and cloud infrastructure development.



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EDUCATION

Bachelor of Technology(Computer Science) PES University

08/2017 – Present

8.48/10

WORK EXPERIENCE

Research Intern Regional Remote Sensing Center

06/2019 – 09/2019

ISRO, Bengaluru, India

Achievements/Tasks

- Our team worked on implementing a fully automated coconut farm detection tool. The end product was a hybrid convolutional neural network which is able to detect coconut farm patches from high-resolution satellite images. Our tool reduces time in detecting coconut farm from several days(manual detection) to a matter of a few seconds.

Deep Learning Subject Matter Expert PESU I/O

03/2020 – 05/2020

PES University, Bengaluru, India

Achievements/Tasks

- As a deep learning subject matter expert, my responsibilities involved teaching a group of 14 students the "Fundamentals of Deep Learning. Students were at the end of the course able to implement simple CNNs.

ORGANIZATIONS

Collegiate Social Responsibility Club, PES University (08/2017 – Present)

Core Member and Social Media Manager

PESU I/O Peer-to-Peer Learning (03/2020 – Present)

Subject Matter Expert

COURSES

Google Cloud Essentials

GCP - Qwiklabs

Neural Networks and Deep Learning

Deep Learning AI - Courseera

Fundamentals of Parallelism on Intel Architecture

Intel-Courseera

SKILLS

HTML

JavaScript

AngularJS

Flask

AWS

Docker

RabbitMQ

Node.js

Tensorflow

Keras

OpenMP

CUDA

OpenCL

C

C++

PERSONAL PROJECTS

RideShare - A cloud based ride sharing application with custom DbaaS architecture (01/2020 – Present)

- A containerized scalable-fault tolerant cloud-based ride-sharing application was built FLASK RESTful APIs and RabbitMQ as a message brokering service. The entire application was built in a modular fashion using Docker containers. This RideShare app is deployed on the cloud using AWS EC2 instances and is also load balanced. Fault tolerance was implemented using Zookeeper leader election.

AutoBleak - Automatic Script Generation for Bleak: Web Memory Leak Detector (12/2019 – Present)

- The original Bleak tool involves substantial time in finding out DOM objects and visual states the web application might leak. Our tool AutoBleak, an improved version of Bleak makes the entire task automatic and hassle-free. By using Google Analytics Data, Guess.JS and node.js, we built a probability graph based on user patterns and automatically generates a script which Bleak can use.

Full Fledged Hotel Management System (12/2019 – 04/2020)

- Guest Management and Employee management in hotels is a tedious task. The sunrise hotel management system simplifies tasks by combining both functions into a simple application. This management system has a minimalist design by using Bootstrap and a functional UX using AngularJS. A synergy of Flask and MySQL implements the backend. The system also included Ajax patterns such as periodic refresh.

Secure Password Storage System in Python using Fernet Symmetric Encryption (08/2019 – 12/2019)

- A secure password storage system was built in python using Fernet symmetric encryption. The aim was to develop a secure client-server architecture using TCP/IP protocols to store passwords on a secure local server. Passwords can be stored in retrieved through the client UI application which was developed by Python-Tkinter.

Signature Forgery Detection using Siamese Convolutional Neural Networks (01/2020 – 04/2020)

- Signature forgery is a tough problem to tackle using just digital image processing. A siamese convolutional neural network with a triplet loss function was developed using Tensorflow. The end product was a trained model with a high AUC score of 0.99.