Pranav Patel

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EDUCATION

Master's in Information Technology,
University of Technology Sydney (UTS),
Major: Data Analytics & *Sub Major*: Cyber Security.
July 2021 (Excepted) | Sydney, Australia

BS in Computer Engineering,
Sarvajanik College of Engineering and Technology.
August 2018 | Surat, India

COURSEWORK

Postgraduate
Fundamental of Data Analytics
LANs and Routing
Cyber Security
Deep Learning & Convolution Neural Network
Data Visualization & Visual Analytics

Undergraduate
Data Structure
System Programming
Artificial Intelligence
Operating System
Theory of Computation

PROFESSIONAL DEVELOPMENT

MongoDB University
M220JS MongoDB for JS Devs.
March 2019 | Virtually

Cisco Networking Academy
CCNA Routing and Switching: Intro. to Networks
February 2020 | UTS curriculum

AlgoExpert
Certificate of Completion
June 2020 | Virtually

SKILLS

Programming Languages:
Python ● JavaScript / Vanilla JavaScript ● Java ● C / C++

Web Technology:
ReactJS ● HTML5 ● CSS ● jQuery ● NodeJS ● Google Charts ● AngularJS ● Bootstrap

Database:
MySQL ● MongoDB

Collaboration Tools:
GitHub

Microcontroller:
Particle Photon ● Arduino UNO

Data Analytics Tools:
KNIME ● Ms Excel ● Power-BI

Computer Science Core:
Algorithm Design & Analysis ● Data Structure

EXPERIENCE

Investa Mark | Associate Research Analyst
July 2018 - May 2019 | Texas, United States of America (Virtually)
Noteworthy: Lead machine learning research team and developed ***07* machine learning algorithms** using Python form the scratch and evaluated it on various available open source dataset.
● Implement the food classification system with over 80% accuracy by using the ***Google Cloud Vision*** based on the ingredients used.

WinR Tech Limited | Full Stack Developer Intern
June 2017 - June 2018 | Surat, India
Award: Runners up / 40 Groups
Noteworthy: Simulated 50 virtual devices via code to perform **load test** and to check the **robustness** of the *proposed system*.
● Managed the project development & design entire system; Fabricated the hardware for detection of toxins present in the environment and visualized the collected data via user intuitive website (dashboard).
● Uplifted the **search time complexity 7%** by taking the a hash of incoming data.
● **Automated the firmware update** for the hardware, live monitoring, and remote controlling of the hardware through the created dashboard.
● Suggested an idea to use ***async call*** to ***reduce*** total ***data loss*.**

PROJECTS

Cloud storage
A self-made cloud storage designed and implemented to store the personal information in high volume was created in ***NodeJS*** with some aid of the ***CSS & JavaScript*** and deployed on to the Internet for world-wide access.

*Algorithm(s) Visualizer**
Inspired by the many YouTube videos and Linkedin's post(s), a series of algorithms visualizer which shows the visualization of the Binary Search Tree (BST), AVL tree and some sorting algorithms such as Insertion sort, Quick sort and Bubble sort was made. All these projects are made with a ***Vanilla JavaScript*** and some basic ***CSS***.

Road work detection and alert system
An innovative deep learning-based project used to detect the ongoing road work in real-time using Raspberry PI camera and update the Google Maps via server. This is made in conjunction with ***Python*** and ***TensorFlow***.

List and live demo of all my project(s) are available at: - http://pranavpatel.me/

PATENT & PUBLICATION

[1] Patent: Patel P. & et al., "A System to Detect Manage Forest Fire Using a Sensor Assembly Unmanned Aerial Device". India Patent *201921003375* (Pending).
[2] Publication: Patel P. & et al., "Identification Visualization of Hazardous Gases Using IoT". *4th IEEE International Conference on IoT-SIU 2019*, India.

References are available upon request.
(*) Only a Binary Search Tree Visualizer link is provided.