Pranav Harendra Patel

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Objective

A highly self-motivated tech enthusiast student ready to make an impact by strong problem-solving skills. A capable individual seeking an opportunity to solve the complex business problems in a logical and innovative way.

Education

Master of Information Technology (Extension) – Data Analytics, University of Technology Sydney (UTS), Australia

July 2018 - July 2021 (Expected)

Bachelor of Engineering (BE) - Computer Engineering, Sarvajanik College of Engineering and Technology (SCET), Gujarat, India

March 2014 – August 2018

Technical Skills

- C, C++, C#, Java, Python, Cisco-IoS, JavaScript (NodeJS)
- MS Access, MySQL, MongoDB
- Arduino UNO, Particle JS
- Windows, Linux
- KNIME, MsExcel

Technical Experience

Associate Research Analyst – Investa Mark, Texas, United States of America   **July 2018 - May 2019**

- Developed 07 **machine learning algorithms** with a pair programming using Python form the scratch and evaluated it on various datasets; The test results were analyzed against the pre-trained TensorFlow models while maintaining an accuracy of around 80%.
- Built a NodeJS application to classify food items with 80% accuracy based on their ingredients using Google Cloud Vision.
- Worked as a full stack developer with a team of 7 working in at a remote place and created web application using Angular JS, C#, and SQL.

Full Stack Developer (Part Time Developer), WinR Tech Pvt Ltd., Gujarat, India   **June 2017 - June 2018**

- Designed, built and deployed the website and also fabricate the hardware for **IOT For Detection and its Representation Of Toxic Gas For Smart City** (using Agile project development cycle); This prototype was made using NodeJS, MongoDB and API(s) such as Google Charts and Maps.
- Front-End was design with Embedded JavaScript (EJS) and Bootstrap.
- The prototype was assessed for simultaneous requests coming from 50 hardware devices with almost no data loss **replicating the load test**.
- Introduced the novel features such as **Automated Over the Air (OTA) firmware update** for the device, examining the **data authenticity using Global Position System** and design an *alert system* to notify the admin in **case of emergency**.
- Lifted the space time complexity (by 53%) of overall system by using known sorting algorithm and data structures. Later, published the application using Heroku.

Projects

Cloud storage	A self-made cloud storage designed and made to store the personal information in high volume was created in NodeJS and deployed on to the Internet for world-wide access.
Clinical Manager	A software system made in NodeJS accomplished a local doctor requirement; Designed, developed, and deployed.
A* path finder	A web-page design to visualize the A* path finding algorithm was made with Processing (a JavaScript framework).
Road work detection and alert system	Innovative deep learning-based project used to detect the ongoing road work in real-time and update Google Maps using Python and TensorFlow.
Simple AWS Web Server	Made a custom architecture using multiple AWS services for a custom design system which is scalable as well as fault torrent and deployed it.

Awards and Extra-Curricular Activities

Publication: - Patel, P. & et al. **"***Identification & Visualization of Hazardous Gases Using IoT", 4th*** IEEE International Conference on IoT-SIU 2019, India. (Also, the presenter of paper)

Patent: - Patel, P. & et al. "*A System to Detect & Manage Forest Fire Using a Sensor Assembly* and *Unmanned Aerial Device",* India Patent Application **201921003375** (patent pending).

Award(s): - A*)* Won the first price for photography competition during the Bachelor. *B)* Honoured with the Best Cricket Player during schooling. *C)* Secured a runner up position for the project, *Identification and Visualization of Hazardous gases using IoT,* in the entire computer department defeating more over 40 teams.

Management and leadership: - A) Casually working as a shift supervisor in Pizza-Hut Chullora, Sydney, Australia. *B)* Appointed as the organizer of the cricket tournament played by 25 teams in Bachelor. *C)* One of the first RSP (the person responsible for maintaining the discipline in the class) in the class during schooling.

Course: - A) *AlgoExpert* – A web platform to learn data-structure basic was accomplished. *B) MongoDB for JavaScript Developer. C)* Currently pursuing the *AWS Associate Developer Course*.

References are available upon request.