PRANAV PATEL

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SKILLS

TECHNICAL SKILLS: Python, Vanilla JavaScript, NodeJS, Java, C++, C, ReactJS, HTML, CSS, MongoDB, MySQL, jQuery, AJAX, Axios, KNIME, Data Structure, Algorithm, TensorFlow, Git, GitHub, AWS (AWS Certified Cloud Practitioner), Windows, Linux, Cisco IOS

EDUCATION

M.S in Data Analytics **[GPA: 6.25 / 7.00]** *Jul 2019 – Jul 2021*
University of Technology Sydney (UTS)
Relevant Courses: *Fundamental of Data Analytics / Deep Learning and Convolutional Neural Network / Data Visualization and Visual Analysis / Cyber Security / Software Defined Networks / Data Structure / Database Design / Software Engineering*

B.E in Computer Engineering **[GPA: 7.75 / 10.00]** *Jul 2014 – Aug 2018*
Gujarat Technological University (GTU)

PROFESSIONAL DEVELOPMENT

MongoDB University**: Setup backend** (in MongoDB) comprising of **30+ simple to complex queries**. *Mar 2019*
Cisco Networking Academy**: Configured** medium size network (**4300+ cisco networking devices**). *Feb 2020*
AlgoExpert**: Completed** over **150+ data structure and algorithm** related **problems** (in Python & JavaScript). *Jun 2020*
HackerRank**: 5-stars** on **HackerRank** for **Problem Solving** by completing **data structure and algorithm** questions. *Jun 2021*

EMPLOYMENT

AI Australia, Web Developer Intern, Sydney, New South Wales, Australia *Aug 2020 - Feb 2021*

- **Led** a team of 6 developers for a **project to automat** an existing **recruiting system**. **Successfully** refactored recruiting dashboard by **reflecting candidate scores to dashboard** generated **through Voicesense API** resulting **speed up recruitment process by 25%** (used NodeJS, JavaScript, ReactJS, and Microsoft Azure).
- **Actively** worked in an **agile software development** environment which utilized **daily scrum** process. **Tuition three interns** on NodeJS and working of RESTful application.

Investa Mark, Associated Research Analysts, Texas, United States of America (remotely) *Jul 2018 – May 2019*

- **Researched and built** 7 **ML algorithms** from **scratch** in Python that are **used** in various **future ML endeavours of company**.
- **Developed** RESTful **food classification system** using Google Cloud Vision's OCR with an **accuracy 80%**. A prototype receives an overwhelming **positive response from colleagues**.

Kalkani Systems Pvt Ltd (formerly entitled as WinR Tech), Full Stack Developer Intern, Surat, India *Jul 2017 – Jul 2018*

- **Engineered hardware** to **measure toxins of environment** with **RESTful website** to **visualized live data** through graphs.
- **Created** single click **remote Over the Air (OTA) firmware update** and **validated system** performance **by simulating 50 virtual devices via code resulted** in securing **second-best project out of 40** projects (involves NodeJS, MongoDB, EJS).

PROJECTS

Algorithm(s) Visualizer* (JavaScript, CSS)

- **Created algorithm visualizer** for **Binary Search Tree, AVL tree, A* path finding** and **N-Queen**.
- **Expanded with sorting algorithms** such as **Insertion, Quick and Bubble** (Vanilla JavaScript & CSS with **75+ hours** of coding).

Road work detection and alert system (Python, TensorFlow)

- **Invented system** to **detect an ongoing road work** with its **notification on Google Map**.
- **Written** in **TensorFlow** with **custom trained & tailored SSD and Faster R-CNN** models (**accuracy: 80%**).
- **Harvested and clean data** around **5 GB** required to train different models.

Universe Lovers (JavaScript, React)

- **Founder and co-creator** of **RESTful website** showing **real time information about universe**.
- Currently has **Mars weather information** (by NASA's InSight mission API), **24x7 ISS tracking** (via Open Notify API), and **light pollution map** (Axios to fetch API).

PATENT AND 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 and Visualization of Hazardous Gases Using IoT**" **4th IEEE International Conference on IoT-SIU 2019**, India (**presenter and 250+ full text view**).

References are provided upon request!