Avi Patel

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OBJECTIVE

Passionate and dedicated Software Engineer, seeking an internship opportunity to leverage my strong technical and problem solving skills to help organizations to meet their goals.

SKILLS

Programming Languages: Java, C, Python, HTML CSS, Javascript, R Technologies and Frameworks: React.js, Express.js, Flask, RESTful API, Pandas

EDUCATION

- Purdue University
 - BS. Computer Science (Honors), GPA: 3.91/4.0
 - Relevant Coursework: Intro. to the Analysis of Algorithms, Intro. to Artificial Intelligence, Computer Architecture, Data Structures and Algorithms, Programming In C, Discrete Mathematics

West Lafayette, IN

Exp. Grad. Date: May 2023

• Awards: Boeing Scholarship Recipient, Purdue-Alumni Scholarship Recipient x2, Honorable Mention: Purdue DataFest 2021

EXPERIENCE

CAM2 Research Group (Autonomous Drone Team) West Lafayette, IN Undergraduate Researcher June 2021 - Present Created a randomized, labeled dataset of 309 images using frames from videos of the ground robot 0 Trained a custom SSD Mobilenet V2 object detector with Tensorflow (Tensorflow API) and converted the 0 resulting model to **Tensorflow Lite** Currently researching different methods for achieving higher accuracy and performance 0 Designing this project's website using HTML, CSS, and Bootstrap 0 Shiva-Vishnu Temple Silicon Valley, CA Software Developer June. 2021 - Aug. 2021 0 Automated the calculations of inauspicious religious timings using the Sunrise-Sunset API and Python 0 Saved temple volunteers 1000+ hours of manual calculations 0 Rebuilt parts of the temple website using React.js, React-Bootstrap, CSS, and responsive design Delta Faucet Company (In Collaboration with the Purdue Data Mine) West Lafayette, IN Data Science Intern June. 2021 - Aug. 2021 Developed a script using Python, Tweepy, and the Twitter API to collect faucet-related tweets along with their 0 corresponding images and store them in a Pandas dataframe Implemented a Zero-Shot classifier using HuggingFace and Python to classify the text of faucet-related tweets 0 based on categories Created visualizations in Pandas to showcase useful insights for Delta Faucet Company 0 Tri-Valley Youth Expo (Expo Hacks Team) Silicon Valley, CA Head of Communications Sept. 2019 - May 2020 Secured \$35,000 of sponsorship money from companies and government organizations 0 0 Cultivated partnerships with 50+ high schools and non-profit orgs. to promote the hackathon PROJECTS Does The US Judge a Book By Its Cover?: • Worked with a team of 4 students to develop a full stack web application which determines how many electoral

- Worked with a team of 4 students to develop a full stack web application which determines now many et votes a person is worth by using an image of the person's face in conjunction with a Pytorch CNN and an external dataset
- Designed the user interface with **React.js** and **CSS**
- Implemented Flask endpoints to accept an image of the person's face as a base64 string, convert the image to jpeg, and send the number of electoral votes this person is worth back to the front end
- RecycleMate:
 - Worked with a team of 4 developers to develop a cross platform mobile application using **React Native** to classify an image as recyclable or not.
 - Developed the homepage and parts of the camera UI using **React Native**
 - Implemented **react-native-camera** and the **Google Cloud Vision API** to classify the object in the image and determine if the object is recyclable or not