Prakrut Patel

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Education

Eckerd College

Bachelor's of Science (B.S.), Computer Science & Physics — May 2022

GPA 3.71

- Dean's List: 2019, 2020, 2021
- Harry W. Ellis Award
- Machine Learning Project: Instance Segmentation with Mask RCNN using Tensorflow
- Capstone Project: Cross Platform Mobile Application

Technical Skills

•Python	•Java/C++	•Unix Scripting	•Flutter/Dart
•Machine Learning	•Scikit-Learn	•Tensorflow/Keras/Pytorch	•ReactJS
•Pandas/Numpy/Scipy	•Apache	•Jenkins	•AWS
•NoSQL/JSON/Rest API	•Git/CVS	•IoT Development	•Docker
•Software Development	•CI/CD	•Agile Methodologies	•DevOps

Experience

EC MakerSpace (Summer Position) — St, Petersburg, FL

Web Developer — June 2022 - August 2022

- Develop a responsive user facing web application for creating modular line drawings for CNC and laser cutters using ReactJS, React Hooks, React-Router and Javascript
- Built custom components for UX Library consisting of Sliders, Joystick, Button, Icon, Logo, Menu
- Implement MakerJS and React Blueprint to create parametric CNC drawing along with a interface for customization of SVG elements
- Evaluate code to ensure that it is valid, is properly structured, and is compatible with all browsers

Dr. Michael Hilton - Eckerd College — St, Petersburg, FL

Student Researcher - Machine Learning — May 2021 - May 2022

- Built Context & Faster RCNN models for a custom dataset using TensorFlow Object Detection API
- Performed parameter tuning of the models based on its performance metrics
- Designed a machine learning pipeline to locate and identify tortoise individuals in camera trap images
- Performed training using a docker container in a Linux environment

TREC LLC Miami, FL

Intern - Mobile App Developer January 2021 - May 2021

- Served as a Product Manager incharge of feature development for the app
- Led a team of 4 for backend development to store app and client data based on our requirements
- Taught usage of Dart and Flutter to other interns for cross platform development
- Used Google Firebase for realtime database management, authentication and network storage

Dr. Stephen Weppner - Eckerd College St, Petersburg, FL

Lead Student Researcher - Computational Nuclear Physics June 2020 - August 2021

- Reduced computational time by 30x for each sample by using Python and Bash to automate our process
- Resolved data compatibility issues between Python and Fortran programs during the pipeline process
- Performed exploratory data analysis of the output for variable tuning using reduced chi-square evaluation between input and output
- Created input parameter files for the programs by using data from Brookhaven National Laboratory
- Performed statistical analysis of the output to check for correlation with known data using NumPy, SciPy & Pandas
- Implemented multi-threading in a Linux environment to run concurrent pipeline processes which reduced total time required by 60%

Activities

Math, Physics, Computer Science Tutor – Eckerd College Computer Science Department	**2020 – 2022**
STEM Tutor – tutored diverse under-represented students with 3D-modeling (CAD) projects	**2018 – 2019**
MakerSpace – Director of Tech and Coding	**2021 – 2022**
Student Athlete – Tennis Team Co-Captain	**2018 – 2022**