Spencer DeMera

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EDUCATION

California State University, Fullerton | Fullerton, CA   June 2023
Bachelor of Science, Computer Science   GPA: 3.65 / 4.00
Theta Tau – Professional Engineering Fraternity

Las Positas College | Livermore, CA   June 2020
Computer Science   GPA: 3.65 / 4.00

TECHNICAL SKILLS

Programming Languages	C/C++, C#, HTML/CSS, JavaScript, Java, Python, MySQL, PHP
Operating Systems	Windows, Linux, UNIX, macOS
Tools & Technologies	React, React-Native, Eclipse IDE, PyCharm, VS Code, Git, Figma

PROFESSIONAL EXPERIENCE

California State University, Fullerton | Fullerton, CA   June – August 2021
Summer Research Assistant
- NSF and DoD Research through Cal State Fullerton's ASSURE-US Program
- Aim to train most efficient and accurate model for our overall project so as not to have exuberant computational requirements
- Continued research from undergraduate research to train and inference test navigational datasets with Yolov5 and YoloX

California State University, Fullerton | Fullerton, CA   March 2021 - Present
Undergraduate Research Assistant
- Funded by Department of Defense to optimize real time image processing for a self-navigating vehicle with a team of undergraduate and graduate students.
- Experimenting with the PyTorch / Anaconda based machine learning system YoLOv5 to train and identify static and moving objects in images and videos.
- Specializing in high plane and top-view object detection and training.

CSUF Theta Tau – Phi Epsilon Chapter | Fullerton, CA   January 2021 - Present
Webmaster
- Maintaining chapter website while rebuilding and redesigning site to meet chapter needs.
- Expanding website functionality to properly format for use on multiple devices.
- Rebuilding entire website with HTML/CSS, JavaScript, and PHP to accommodate chapter needs.
- Working with a committee of students on various design and development projects during production.

TECHNICAL PROJECTS

StormyWeather App
- Used react-native to create a clean, simple, and user-friendly weather app for Android and later iOS.
- App uses OpenWeatherMaps's OneCall API to retrieve weather data and display it to the user via hourly, daily, and current atmospheric condition and weather reports
- App is currently on version 0.5.2 Beta and will be heading to the Google Play Store in the coming months.
- Utilized: React, react-native, OpenWeather API

Personal Portfolio Website
- Personal portfolio website to showcase both my skills as a web / mobile developer and computer science student.
- Website is design in Figma and written in React and vanilla HTML/CSS while being hosted on GitHub Pages.
- Utilized: React, HTML/CSS, Figma, Git