# Spencer DeMera

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## EDUCATION

**California State University, Fullerton | Fullerton, CA**                                    December 2022
Bachelor of Science, Computer Science                                                        GPA: 3.65 / 4.00

**Completed Coursework:**
- Algorithm Engineering, File Structures & Databases, Operating Systems Concepts, Software Engineering, Web Back- End Engineering, Computer Organization

**Upcoming Coursework (Spring 2022):**
- Compilers & Languages, Computer Security, Computer Communications, High Performance Computing

## TECHNICAL SKILLS

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|---|---|
| **Programming Languages** | C/C++, HTML/CSS, JavaScript, Python, C#, Java, MySQL, NoSQL, Redis, PHP |
| **Operating Systems** | Windows, Linux, UNIX, macOS |
| **Tools & Technologies** | React, React-Native, Hug, VS Code, Git, Figma |

## PROFESSIONAL EXPERIENCE

**CSUF Theta Tau – Phi Epsilon Chapter | Fullerton, CA**                                    January – December 2021
*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.

**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 – August 2021
*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.

## 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