Manuel Vasquez

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EDUCATION

University of Central Florida
- *Bachelor of Science in Computer Science*
  Minor in Statistics

Orlando, FL
Spring 2021

PROFESSIONAL EXPERIENCE

- **Siemens @ Viable | Innovation Center**
  Software Engineer Intern | viablees.com

  Orlando, FL
  Jan 2020 - Present

  - Structured several internal systems comprising of procurement tools, revenue reporting, and production workflow tracking. Designed REST and GraphQL APIs using Python, ASP.NET Core, and Node.js.
  - Deployed several applications as containers using Docker to AWS. Utilized the Serverless framework to create a fully serverless application backend.

- **El Aposento | Advertising Agency**
  Software Engineer Consultant

  Orlando, FL
  Nov 2020 - Present

  - Created e-commerce sites integrated with PayPal, Azul, and other payment APIs.
  - Created live news delivery network via website, SMS, and email using AWS SNS. This provides content to thousands of followers.

- **Imperium Analytics | Financial Social Media**
  Co-founder and Lead Back-end Developer

  Orlando, FL
  Feb 2021 - Present

  - Manage a team of 4 developers to create the back-end of an upcoming stock trading social media.
  - Built a fully serverless back-end designed as a GraphQL API and written in Python.

TECHNOLOGIES & SKILLS

- **Selected Skills**
  Web
  Proficient: Python, ASP.NET Core, Node.js, Flask, Serverless Framework, LaTeX, GraphQL, React.js

- **Data Science & HPC**
  Proficient: Python, OpenCV, Pandas, Scikit-learn, TensorFlow 2.0
  Familiar: R, SLURM

- **Databases**
  Proficient: MySQL, DynamoDB, Firebase Firestore
  Familiar: MongoDB

- **Services**
  Proficient: Amazon Web Services
  Familiar: Google Cloud Services

- **Spoken Languages**
  Bilingual: English & Spanish

PROJECTS

- **Lockheed Martin's Everglades Behaviour Analytics**

  - Lead a team of 5 members to create custom metrics to justify player performance and a win prediction engine for the StarCraft II real-time strategy game.
  - Report findings to a committee as "explainable AI" and describe how this can be transferred to the internal Everglades game.

- **DJI Tello active hand tracking**

  - Gave a Tello drone the ability to be controlled by the palm of a single user.
  - Utilizing OpenPose I was able to track the skeleton of a user in most light conditions and when partially covered.

- ***KnightyKnights.com* a fitness tracker**

  - Led a team of 5 members to create a social media mobile and web application using Firebase.
  - The web app was built using React.js and the mobile app was built natively using Swift.

- **Kaggle Competitions**
  Participated in competitions hosted by UCF and consistently placed in the top 10 of about 300 participants. AI@UCF has allowed me to hone my competitive data science skills.

CLUBS & ACTIVITIES

- **AI@UCF** Active member since Spring 2019
  - **Core:** Honing and reviewing AI/ML and Data Science in general.
  - **Data Science:** A project-based stem of the AI@UCF club that focuses on honing industry skills through real-world application. We explore untouched datasets and make new discoveries as they relate to the fields of AI, ML, and Data Science in general.

- **UCF Robotics Club** Laki2 Drone Payload Delivery Team
  This drone is the Robotics Club's first entry into the AUVSI SUAS competition. I was part of the computer vision team whose task was to develop the drone's smart vision system, capable of understanding and reporting elements of its environment.

- **UCF Programming Team:** Members meet every Saturday morning for a 2-hour lecture and 4-hour mock contest.