Steven Camacho

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PROJECT EXPERIENCE

TrackMate - Soccer Tracker App   **Cooper City, Florida**

Full Stack & Machine Learning Integration   *August 2024 – November 2024*

- Engineered a machine-learning based tracking/editing application using YOLOv5 and OpenCV, highlighting a specified player's movements and reducing video-editing time by 58%.
- Integrated YOLOv5 (Ultralytics) and OpenCV to construct machine-learning based player tracking system, leading visual identification of desired player, notably pinpointing precise location for the player.
- Constructed scalable backend APIs using Express and Node.js, handling user authentication, implementing a suite of 14 unit tests, video processing, and data management (MySQL).
- Forged a seamless drag-and-drop file upload feature using React Dropzone, which streamlined the video processing workflow, cutting down processing time by 5 minutes per video.
- Configured a Docker Compose setup to orchestrate three containers for the app's backend, frontend, and database services, enabling efficient replication and deployment.

Upper-Limb Joint Prediction Using IMUs   **Orlando, Florida**

Project Manager & Machine Learning team member   *January 2024 – August 2024*

- Piloted the domain-adaptation PyTorch model to predict upper-limb movements, achieving a 87% success rate in movement classification using IMU data from 13 healthy participants.
- Developed data loaders and processed datasets using Pandas, NumPy, Vicon, and Opensim for efficient analysis.
- Expanded responsibility to teach data collection process to fellow research coordinators and maintain consistency.
- Orchestrated daily stand-ups and sprint planning across research, machine learning, and technical teams, resolving 15+ critical model implementation roadblocks resulting in on-time project delivery.

Pop Out live-chat event planner app   **Orlando, Florida**

Project Manager & API team member   *August 2023 - December 2023*

- Steered the creation of a real-time event planner application, orchestrating a team of 7 and guaranteeing on-time feature releases through Agile and Scrum methodologies; achieved 85% sprint completion rate.
- Constructed and administered 15+ API endpoints leveraging JavaScript within Node.js, guaranteeing consistent data flow across Android applications, thereby streamlining user experience.
- Validated API endpoints using Postman and Jest, identifying and rectifying 10 critical bugs impacting user experience prior to launch, ensuring consistency in back to front app experience.

EDUCATION

University of Central Florida   **Orlando, Florida**

Bachelor of Science: Computer Science   *Graduation Date: August 2024*
GPA: 3.7

AWARDS

Pegasus Gold Scholarship | President's List Recipient | Dean's List Recipient

SKILLS

Programming Languages/Frameworks: Java, Python, JavaScript, React, Node.js, Express

Project Management: Agile, Scrum, Sprint Planning

Machine Learning and Data Science: Pytorch, Numpy, Pandas, YOLOv5, OpenCV

Additional skills: Fluent in English and Spanish