

Jossaya Camille

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EDUCATION

University of Florida

B.S. in Computer Engineering

Gainesville, FL

Expected May 2029

- **Relevant courses:** Digital Logic & Computer Systems, Microprocessor Applications, Natural Language Processing, Computational Linear Algebra

Florida Atlantic University High School

Dual-enrolled High School Diploma in Computer Engineering

Boca Raton, FL

August 2023 - May 2025

- **Relevant courses:** Data Structures & Algorithms, Intro to Deep Learning

EXPERIENCE

AD Vantage

Software Engineer Intern

September 2026 – Present

- Build full stack features for a React and PostgreSQL platform that helps college athletic directors hire coaching staff
- Built and shipped a coach search feature that filters by sport-specific skill areas, writing end-to-end UI, **Postgres** queries, and **REST API** endpoints

UF Nelms Institute for the Connected World

Software Research Assistant | PI: Swarup Bhunia, PhD

January 2026 – May 2026

- Researched near-infrared spectroscopy for extracting structural signatures from surface microstructures, designing a **dual-head classifier-regressor ML architecture** (SVM, Random Forests) with **PCA dimensionality reduction** in Scikit-Learn
- Collected 2,400 spectral samples (228-wavelength NIR absorbance) across 24 3D-printed microstructures via a TI DLP NIRscan Nano EVM, achieving **88.4% test classification accuracy** and **sub-0.15 mm dimensional MAE**

UF Machine Intelligence Laboratory

Robotics Software Contributor

August 2025 – December 2025

- Deployed and evaluated three monocular depth estimation models (MiDaS, DepthAnythingV2, DepthPro) on an **NVIDIA Jetson Nano** aboard the Subjugator AUV for the Visual Localization project, aiming to map the environment in metric units for obstacle avoidance
- Identified DepthPro as incompatible with the Jetson's hardware acceleration and MiDaS as efficient but non-metric, narrowing the team's focus to DepthAnythingV2; gained hands-on experience with ROS and live on-robot testing

FAU Biomedical Signal and Image Analysis Lab

Software Research Assistant | PI: Behnaz Ghoraani, PhD

May 2024 – May 2025

- Awarded a Florida Atlantic University research grant for Monocular 3D Human Pose Estimation for Gait Analysis
- Built a monocular 3D pose estimation pipeline (**MediaPipe BlazePose, OpenCV**) with camera calibration and pixel-to-real-world coordinate conversion for markerless gait analysis
- Developed **MATLAB signal-processing methods** (Butterworth filtering, gait-event detection) to extract **spatiotemporal gait parameters** from joint movement
- Measured step length (0.43–0.62 m), stride length (0.48–0.81 m), and cadence (2.42–3.82 steps/s) across 3 walking trials, validated against published reference ranges

RELEVANT PROJECTS

SignSpeak – ASL Learning Platform

February 2026

- Identified an ASL learning tool gap at Hacklytics 2026 and shipped a **full-stack platform** in 36 hours
- Trained a **PyTorch CNN** on 30,000 images using **UF's HiPerGator**, the world's 10th-fastest supercomputer, scheduling training jobs via the **SLURM** queue
- Converted the model to run via **TensorFlow.js** for real-time inference on a **Nuxt.js frontend**
- Integrated the **Gemini API** to generate adaptive, real-time educational content

SKILLS

Programming Languages: C++, C, Python, TypeScript, JavaScript, SQL, VHDL

Experience with: React, Next.js, Node.js, Supabase, Postgres, Firebase, Docker, Vercel, Git/GitHub, Linux, TensorFlow, PyTorch, OpenCV, MediaPipe, Raspberry Pi, Arduino, State Machine Design,

Certificates: NVIDIA Fundamentals of Deep Learning