



## EXPERIENCE

### PopID Computer Vision Engineer

- Deployed new biometric recognition technology to eliminate physical contact with the terminal.
- Tested drive-thru liveness software resulting in 57% increase in successful facial matching performance.
- Built backend APIs used by partners to integrate PopID biometric payments platform into retail stores.
- Led team during 4-month Steak n' Shake pilot, increasing daily transactions from 5 to 50/day.

## EDUCATION

### The University of Central Florida M.S. in Computer Vision | GPA 3.7

- Top Courses Advanced Computer Vision, Medical Imaging, 3D Computer Vision, Advanced AI
- Dean's List All Semesters

### The University of Central Florida B.S. in Computer Science | GPA 3.5 | Core CS GPA 3.9

- Top Courses AI, Robot Vision, Machine Learning, Parallel Programming, CS 1 & 2

## PROJECTS

### Live Hand Gesture Recognition Kotlin, Python, Chaquopy

Designed a hand gesture recognition system for Android POS system, enhancing customer drive-thru experience with touch-free tipping.

- Engineered a robust ML pipeline to accurately classify 5 unique hand gestures, resilient to changing environmental factors.
- Integrated Python-based ML algorithms into Android application for seamless deployment to existing POS devices.

### LateNtMovies: Image-to-Video Synthesis Python, Pytorch

Developed a novel generative video model using pseudo-3D latent diffusion, to convert images into high-resolution and coherent videos.

- Combined latent diffusion with temporal convolutions, to enhance motion understanding during unsupervised training.
- Validated model effectiveness through CLIP benchmarks and human evaluations, demonstrating superior realism and fidelity.

### Credit Card Fraud Detection Python

Architected machine learning pipeline that efficiently detects fraud using real European consumer credit card data.

- Stabilized model using regularization to achieve 98% separation of fraudulent and non-fraudulent data.
- Balanced dataset of 300,000 credit card transactions by artificially creating more fraudulent data using SMOTE.

### EasyMeshVR C#, Unity, NodeJS, AWS

Created multiplayer VR application that allows users to collaboratively edit 3D models.

- Managed 5-person team in building mesh-editing, multiplayer, and web architecture to launch application in 6-month period.

## LEADERSHIP

### Alpha Epsilon Pi Fraternity Executive Board

- Entrusted by 100-member chapter to serve on executive board, lead new members, and plan events.
- Oversaw committee that transitioned 37 new members into the fraternity over two-semester period.
- Streamlined new member program framework for successors to use in creating their own schedules.

## LANGUAGES

### Programming

Python	●	●	●	●	●
Java	●	●	●	●	●
Html & CSS	●	●	●	●	○
C#	●	●	●	●	○
SQL	●	●	●	●	○
JavaScript	●	●	●	○	○

### Conventional

English	●	●	●	●	●
Hebrew	●	●	●	○	○

## SKILLS

### Development Experience

Leading programming teams, following Agile development principles, and public speaking.

### Python

Building predictive models and neural networks for classifying large datasets.

### Java

Dynamic/recursive algorithms, complex data structures, and object-oriented design.

### Industry Tools

OpenCV, PyTorch, TensorFlow, Unity, MongoDB, Kotlin, Figma, NumPy, and Pandas.