

# Amer Samman

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## Education

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University of Central Florida, GPA: 3.9

~Dec. 2026

Bachelor of Science, Computer Science

Valencia College

Jan. 2024

Associate of Arts, General Studies

## Projects

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### Autonomous Drone Project

~Sum 2025

Lead Developer // Python – TensorFlow – OpenCV – Numpy – Pandas

- Leading a team in developing an autonomous drone system, ensuring smooth collaboration and milestone achievement.
- Implementing real-time object tracking to allow the drone to autonomously follow recognized objects in the camera feed.
- Integrating hand gesture recognition from an external camera to control the drone's movement and behavior remotely.
- Managing version control and team collaboration through GitHub, ensuring code quality and documentation.

### Capital 01 Health – Shellhacks Hackathon

Lead Developer // Python – Genetic Adversarial Network – Git – GitHub – NumPy – Pandas – TensorFlow – Matplotlib

- Led the development of a Genetic Adversarial Network to leverage 5 years of financial data to predict net Savings.
- Trained the model using TensorFlow, implementing adversarial techniques to enhance prediction accuracy.
- Utilized NumPy and Pandas to analyze the large datasets for processing by the model in training and evaluation.
- Created a tool that analyzes income growth compared to inflation rates, helping users assess their financial health.

### Portfolio Website

Developer // React.js – HTML – CSS – Git – GitHub

- Developing a responsive, dynamic portfolio website using React to showcase personal projects and technical skills.
- Built reusable components to ensure a modular structure, enhancing maintainability and scalability of the codebase.
- Implemented a custom navigation bar to improve user experience and ease of navigation across the portfolio.
- Designed and implemented the entire front-end using pure CSS, focusing on clean and modern design principles.

## Technical Skills

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Programming Languages: C, Python, Java, JavaScript, C++, SQL

Frameworks/API's: React, Django, TensorFlow, OpenCV, Numpy, Pandas

## Relevant Leadership Experience and Campus Involvement

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### Workshop Lead

University of Central Florida, ACM

- Leading a workshop designed to prepare Computer Science students for the mandatory Foundation Exam.
- Creating and delivering presentations covering key exam topics, study strategies, and exam preparation techniques.
- Facilitating interactive problem-solving sessions, encouraging active participation and collaboration among students.
- Collaborating with faculty and peers to ensure the workshop met academic standards and address the needs of participants.

## Club Involvement

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Hack@UCF – Member

KnightHacks – Member

Association of Computing Machinery (ACM) – Tech Lead

## Additional Experience

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Millers Ale House, Orlando, FL, Host

Mar. 2023-Dec. 2023

Alkassar Real Estate Myrtle Beach, SC, Hotel Management

June 2022-Mar. 2023