

Yama Jiang

718-827-9029 | yamajiang.cs@gmail.com | [linkedin.com/in/yamajiang](https://www.linkedin.com/in/yamajiang) | <https://yamajiang.github.io/>

Education

University of Central Florida

Orlando, FL

Bachelor of Science in Computer Science, Accelerated BS-MS

August 2026

- **Academic Achievements:** Dean's List, President's Honor Roll
- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Mobile Software Development, Computer Logic and Organization, Intro to Robotics
- **Organizations:** Girls Who Code, SASE, SWE, Marine Environment Robotics

Experience

Undergraduate Research Assistant

August 2025- Present

University of Central Florida - Knights Scholar Research Program

Orlando, FL

- Researching the impact of driver emotions on road safety using multimodal learning including vision large language models (VLLMs)
- Data labeling and annotating multimodal driving video datasets including driver emotions, actions, and surrounding traffic context
- Conducting research on Visual Question Answering (VQA) with Qwen LLM for driving datasets, analyzing how multimodal inputs can improve understanding of driver behavior and road context

Intern

October 2021 - May 2022

SkyWater Technology

Kissimmee, FL

- Collaborated with a team to redesign and automate SkyWater Technology's IC chip materials storage and sorting system
- Integrated a Vertical Lift Module and compressed shelving for optimized storage
- Produced AutoCAD drawings and cost analysis to support system design

Projects

NavX | Arduino, Python

- Co-developed an autonomous object-avoidance robot car using Arduino for motor control, sensor integration, and navigation logic
- Implemented system to identify and classify obstacles using YOLOv8, enabling intelligent path planning and adaptive avoidance
- Added a live stream view of the robot's camera, displaying real-time bounding boxes and reporting detected objects on the user interface

Vehicle Detection | Python

- System to identify and count vehicles in real-time video footage, including highway and surveillance camera feeds
- Utilized YOLOv8 object detection model to process video frames for accurate vehicle recognition and classification
- Implemented real-time vehicle tracking with bounding box overlays and count to visualize detected vehicles in video frames

FaceGuard | Python

- Built a face detection system using MediaPipe and OpenCV to anonymize faces with consistent blurring across photos, videos, and live webcam feeds
- Gained hands-on experience with facial detection, video stream handling, and real-time image processing using OpenCV

Okayama | HTML, CSS, JavaScript

- Created a visually appealing, mobile-friendly website using HTML, CSS, and JavaScript, tailored to showcase details and menu highlights for a restaurant
- Site reached over 1.5k unique visitors and handled 12.5k requests in under a month, demonstrating significant user interest and interaction.

Technical Skills

Languages: HTML/CSS, Python, Java, C, C#, C++, Typescript, JavaScript

Frameworks and Libraries: Tailwind, Next.js, React, OpenCV

Tools and Technologies: Figma, Git, VSCode, Unity, Eclipse, Android Studio, IntelliJ, Arduino, Microsoft Office