Yama Jiang

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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

Intern 2021-2022

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

Pokébook | *HTML, CSS, JavaScript*

- Collaborated with a team to develop a full-stack contact manager, integrating a Pokémon-themed UI for an engaging user experience
- Implemented full CRUD (Create, Read, Update, Delete) functionality using the LAMP (Linux, Apache, MySQL, PHP) stack, ensuring efficient data management
- Developed front-end by designing a responsive and visually appealing interface while ensuring seamless backend integration for smooth data handling

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

MATE ROV| *Python*

- Developed a leak sensor to detect water leakage in a ROV's enclosure to alert the system while enhancing underwater safety and durability
- Created a terminal user interface using PySeries and the curses library to display leak sensor and temperature status from the Arduino to flight control system

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