

Yama Jiang

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Education

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| University of Central Florida <i>Bachelor of Science in Computer Science, Accelerated BS-MS</i> | Orlando, FL August 2026 |
| <ul style="list-style-type: none">Academic Achievements: Dean's List, President's Honor RollRelevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Mobile Software Development, Computer Logic and Organization, Intro to RoboticsOrganizations: Girls Who Code, SASE, SWE | |

Experience

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| Undergraduate Research Assistant <i>University of Central Florida - AI & Imaging in Medicine (AIM) Research Lab</i> | September 2025- Present Orlando, FL |
| <ul style="list-style-type: none">Researching multimodal learning by integrating whole slide pathology images with DNA methylation data, benchmarking accuracy and efficiency against single-modal approachesPreparing to conduct downstream task training on multiple biomedical datasets using Gigapath (whole slide image encoder) and CpGPT (dna methylation encoder) to predict the diagnosis against single modality | |
| Undergraduate Research Assistant <i>University of Central Florida - Knights Scholar Research Program</i> | August 2025- Present Orlando, FL |
| <ul style="list-style-type: none">Researching the impact of driver emotions on road safety using multimodal learning including vision large language models (VLLMs)Conducting research on Visual Question Answering (VQA) with Qwen LLM for driving datasets by data labeling and annotation along with analyzing how multimodal inputs can improve understanding of driver behavior and road context | |
| Intern <i>SkyWater Technology</i> | October 2021 - May 2022 Kissimmee, FL |
| <ul style="list-style-type: none">Collaborated with a team to redesign and automate SkyWater Technology's IC chip materials storage and sorting systemIntegrated a Vertical Lift Module and compressed shelving for optimized storageProduced AutoCAD drawings and cost analysis to support system design | |

Projects

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| Vehicle Detection Python | |
| <ul style="list-style-type: none">System to identify and count vehicles in real-time video footage, including highway and surveillance camera feedsUtilized YOLOv8 object detection model to process video frames for accurate vehicle recognition and classificationImplemented real-time vehicle tracking with bounding box overlays and count to visualize detected vehicles in video frames | |
| FaceGuard Python | |
| <ul style="list-style-type: none">Built a face detection system using MediaPipe and OpenCV to anonymize faces with consistent blurring across photos, videos, and live webcam feedsGained hands-on experience with facial detection, video stream handling, and real-time image processing using OpenCV | |
| Okayama HTML, CSS, JavaScript | |
| <ul style="list-style-type: none">Created a visually appealing, mobile-friendly website using HTML, CSS, and JavaScript, tailored to showcase details and menu highlights for a restaurantSite reached over 1.5k unique visitors and handled 12.5k requests in under a month, demonstrating significant user interest and interaction. | |

Technical Skills

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| 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 |