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, Artificial Intelligence, Computer Vision
- **Organizations:** Girls Who Code, SASE, SWE

Experience

Undergraduate Research Assistant   September 2025- Present
University of Central Florida - AI & Imaging in Medicine (AIM) Research Lab   *Orlando, FL*
- Researching multimodal learning by integrating whole slide pathology images with DNA methylation data, benchmarking accuracy and efficiency against single-modal approaches
- Preparing 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   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)
- 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   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

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