

Chris Ho

ho.chris.cs@gmail.com |  Chris-Ho |  ChrisH0125 |  hochris.dev

Education

University of Central Florida

Aug 2024 – May 2028

BS in Computer Science

Relevant Coursework: Data Structures and Algorithms 1, Object-Oriented Programming, Data Structures and Algorithms 2

Experience

Software Engineer Intern

May 2026 – Aug 2026

ServiceNow

Santa Clara, CA

- Built an AI-driven automation pipeline with **Claude Code** agents and **MCP** integrations to triage nightly **CI/CD** test failures, cutting diagnosis time by **90%**
- Automated fix generation and pull-request creation for failing tests using **Python**, adding real-time **Teams** reporting to the pipeline
- Diagnosed failures across **80+** automated tests per run in a **Java** codebase via **Jenkins**, resolving environment and dependency issues to improve build reliability
- Debugged artifact-retrieval failures via **MCP** tooling, reading build logs from **AWS S3 Buckets** and shipping a workaround to unblock automated diagnosis

Outreach Director

May 2025 – Present

Knight Hacks

Orlando, FL

- Attended **20+** tabling events to welcome underclassmen, recruiting **200+** new members and expanding community outreach
- Grew social media reach by **50%** by consistently publishing targeted content across platforms, increasing event turnout and brand visibility
- Built and led a **13-member outreach team**, delegating event logistics and marketing initiatives, creating a smooth workflow for the organization
- Coordinated with **10+** business partners through sponsorship outreach, generating over **\$500+** in funding

Projects

Recall | *Python, YOLOv8, SQLite, ESP32, ChromaDB, Elevenlabs, TypeScript*

- Awarded **2nd place of 85** projects for **Best Overall** at the HackUSF 2026 Hackthon
- Integrated **ChromaDB** vector embeddings into the memory pipeline to power semantic search, reducing relevant memory retrieval to query over **100+** stored entries
- Bridged **ESP32** microcontroller hardware (camera + microphone streams) to a multi-threaded **Python** backend, reducing integration latency and enabling real-time hardware health monitoring

TideSense | *React-Native, Tensorflow Lite, YOLOv8, SQLite, Python, FastAPI, OpenCV*

- Engineered an AI-powered riptide detection system by training a custom **YOLOv8** model on **Roboflow** with **500+** annotated ocean images and deploying it via **TensorFlow Lite**, achieving **85%** detection consistency across varying conditions with over **100+** scans
- Reduced false positives by **60%** using center-crop and adaptive thresholding in a **FastAPI/React Native** pipeline, enabling real-time analysis.

MemorAI | *React, Typescript, TailwindCSS, Next.js, Firestore, Azure Blob, OpenCV*

- Developed a real-time facial recognition and data display module by connecting a **Python**-based **OpenCV** service to a **Node.js** backend, embedding **Firestore** data onto a live video stream and increasing the speed of personal identification for users by **70%**
- Engineered an authoritative, real-time data synchronization pipeline by implementing an event-driven script that automatically rebuilds local embedded files from **Azure Blob Storage** and **Firestore** upon service startup, achieving **100%** data consistency

Technologies

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

Tools/Libraries: Visual Studio Code, GitHub, Figma, Vercel, Vite, NumPy, Vitest, Leaflet.js, YOLOv8, Jenkins, CI/CD, MCP, Docker, Kubernetes

Frameworks: React.js, Node.js, Next.js, Flask, React-Native, Tailwind CSS