




Chris Ho

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Education

University of Central Florida

May 2028

BS in Computer Science

Relevant Coursework: Data Structure and Algorithms, Security in Computing, Object-Oriented Programming

Experience

Software Engineer Intern

May 2026 – Aug 2026

ServiceNow

Santa Clara, CA

- Incoming Summer 2026

Outreach Board

May 2025 – Present

Knight Hacks

Orlando, FL

- Attended **20+** tabling events to welcome underclassmen, recruiting **200+** new members and expanding community outreach
- Photographed meetings and events to showcase participation, increasing community engagement by **70%**
- Coordinated with **10+** business partners through sponsorship outreach, generating over **\$500+** in funding

Projects

TideSense | *React-Native, Tensorflow Lite, Yolov8, SQLite, Python, FastAPI, OpenCV*

Nov 2025 - Nov 2025

- 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
- Architected a full-stack mobile safety platform integrating **Google Gemini 2.5 Flash** for conversational AI assistance and **ElevenLabs TTS** for audio summaries, increasing user interactivity and engagement
- 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*

Sep 2025 - Sep 2025

- 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

Letter2You | *React, Typescript, TailwindCSS, Node.js, Firebase, HTML/CSS, Gemini*

Sep 2025 - Sep 2025

- Implemented in-app voice dictation by integrating the **Web Speech API**, resulting in hands-free letter composition that increases accessibility and speeds user input with **95%** accuracy
- Designed the frontend leveraging **React**, **Typescript**, and **TailwindCSS**, creating a user-friendly and responsive UI that reduced page load time by **70%**
- Connected the backend to the frontend utilizing **Node.js** and **Firebase** to effectively store user authentication and track over **50+** letters
- Implemented client-side webcam capture and **Webhook upload pipeline** through **POST** requests to enable users to add annotated polaroids to letters, improving engagement by **85%**

CampusZone | *Flask, Leaflet.js, Python, PostgreSQL, Gemini, Docker*

Jun 2025 - Jul 2025

- Developed a full-stack campus safety application with a 4-person team by architecting a **Python/Flask** backend and an **HTML/CSS frontend**, delivering a functional prototype with **4 core features** within a **12-hour hackathon**
- Coordinated team workflow and led frontend development by managing the **Git/GitHub** branching strategy and authoring all project documentation, resulting in zero merge conflicts and a polished submission

Technologies

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

Tools/Libraries/Frameworks: Visual Studio Code, GitHub, Figma, Vercel, Vite, Tailwind CSS, Node.js, Next.js, NumPy, React.js, Vitest, Flask, Leaflet.js, React-Native, YOLOv8