

Xijing Wang (Thomas)

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EDUCATION

Santa Clara University

Bachelor of Science: Major in **Computer Science**, Minor in **Economics**

Reward & Honor: *REAL Program Scholar - Summer Research Internship*

Santa Clara, CA

Sep 2021 - Spring 2025

Language / Skills

Skills: Full-Stack, Machine/Deep Learning, Data Structure, Data Science, Data Privacy.

Languages/Others:: C++, HTML/CSS, Javascript, Java, Scala, Python, Go / Gin, React, React.native, Opencv, Keras

Experience

Research Engineer Intern | *Shell, Linux, Deep Learning, Data Analysis*

Santa Clara, CA

Real Program Summer Funding Opportunity in LCCN lab at SCU

June 2024 - Sep 2024

- Developed and adjusted **Convolutional Neural Network (CNN) models** for testing neuroscience theories, including **Dataset Preprocessing** and **Parameter Tuning**.
- Preprocessed fMRI and anatomical data from online datasets and transferred to **WAVE HPC platform** using **Shell Scripting**.
- Analyzed research results, constructing **Correlation Matrices** using **Pearson Correlation**, and authored manuscripts detailing research findings and methodologies.
- Routine maintenance and updates of the **Lab Website** using WordPress, with customized HTML/CSS modifications.

CS Lab TA - CSCI 60: Introduction to C++ and Object-Oriented Programming

Santa Clara, CA

- Assisted nearly 70 students in debugging C++ code and understanding basic concepts while monitoring group progress and collaborating with the instructor.

Project

EmojiAndEmotion | *React Native, SQLite*

Full Stack iOS app for real-time HRV monitoring and emoji-based emotional journaling, with easy access/edit to past entries.

<https://github.com/xthomaswang/EmojiAndEmotion>

- Designed and developed app architecture with **Stack, Drawer**, and Shared features for seamless navigation and scalability, integrated **SQLite** for fast data responsiveness, unified global styles for consistency, and incorporated Apple **HealthKit API** to visualize Heart Rate Variability (HRV) metrics from devices like iWatch.

Food Recognition IOS App | *Swift, Tensorflow*

Full Stack iOS app for food recognition, integrating deep learning model.

<https://github.com/xthomaswang/FoodRecogProj>

- Developed an iOS food recognition app using **Swift** and **TensorFlow**, incorporating image preprocessing and **Core ML** model integration to transform and deploy machine learning models for real-time classification, and presenting accurate food labels with confidence levels.

Social Networking Website | *Go, Javascript, HTML/CSS*

https://github.com/xthomaswang/blog_web

- Developed a robust **full-stack** web server using the **Gin framework**, integrating a **RESTful API**, a **JSON-based database** for efficient data management, and a **scalable commenting system** for interactive user engagement.

Inrix Hackathon Challenge | *Java, Javascript, HTML/CSS*

<https://github.com/yongkangchen/INRIXMarketSuggestions>

- Developed a web application for analyzing and ranking tourist numbers based on historical data using **Inrix APIs**, implementing **multi-threading** in Java for optimized API calls and integrating interactive maps with **Leaflet**.
- Ranked in the top 6 of 26 teams.

LEADERSHIP EXPERIENCE

Woodstock Academy, Production Club – Director

Woodstock, CT

<https://www.youtube.com/watch?v=lbT5cw2aFb8>

- Partnered with a local industrial company to produce a **Documentary-Style** video for the "What's so Cool about Manufacturing?" EAMA's 5th Annual Student Video Competition (2019), showcasing their work and achievements—winning **Most Creative** and **Best Narration Prizes**.