

# Yukai Shan



<https://pinapelz.com>

## EXPERIENCE

### University of California, Irvine

Academic Lab Tutor

Spring 2023

- **Assisted 200+ students in I&C SCI 32** with debugging, algorithms, and assignment guidance.
- Held weekly office hours improving student understanding of Python and software library usage.
- Collaborated with course staff to produce examples and clarify student misconceptions

### Panasonic Avionics

Software Engineering Consultant (Capstone Project)

Jan 2026 - Present

- Designed an end-to-end in-flight advertising pipeline delivering campaigns from ground systems to aircraft with version management
- Implemented campaign validation, asset packaging, and deterministic deployment workflows to ensure reliable delivery of advertising content to aircraft systems.
- Enabled connectivity-based configuration updates, migrating system settings to support remote updates without requiring full advertisement load

## EDUCATION

### University of California, Irvine

Bachelor of Science in Software Engineering - 3.87 GPA

June 2026

- Dean's Honor List Award (**All Quarters**)
- Contributed to Open-Source Information and Computer Science Student Council Led Projects
- **Coursework:** Data Structures & Algorithms, Internet Applications Engineering, Relational Databases, Project in Operating Systems, Software Testing and Quality Assurance

## PROJECTS

### 573-Updates – Arcade Gaming AI Powered News Aggregation Service

Spring 2025

- Built a modular Python scraping system to collect, standardize, and unify data from multiple community sources.
- Created a **modern React Typescript** + Tailwind CSS single-page application with filtering, search, and responsive views capable of scaling to millions of users.
- Added **PWA** capabilities, including offline access and push-style notifications through a service worker.
- Utilizes **AI/LLM** integrations to provide translation and summary at scale

### JHolodex - Java Wrapper for the Holodex REST API

Spring 2023

- Developed a **complete Java wrapper** supporting all Holodex GET/POST endpoints (retrieving channels, events, livestreams, and metadata)
- Automated **CI/CD** for deployment to Maven Central, simplifying installation and integration for developers.
- Added request builders, type-safe structures, and in-depth documentation to streamline usage.

## SKILLS

- Languages: Python, C++, JavaScript/TypeScript, Java, C#
- Tools: React, Redis, MySQL, Postgres, Git, Linux, AWS