

# Yukai Shan

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## EDUCATION

### University of California, Irvine

Bachelor of Science in Software Engineering - 3.91 GPA

June 2026

- Dean's Honor List Award (All Quarters)
- Contributed to Open-Source Information and Computer Science Student Council Led Projects

## EXPERIENCE

### University of California, Irvine

Academic Lab Tutor

Spring 2023

- Assisted 200+ students in I&C SCI 32 with debugging, algorithm reasoning, 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
- Coursework: Data Structures & Algorithms, Operating Systems, Computer Networks, Databases

## PROJECT

### Patchwork Archive - Full-Stack Video Archival & Platform

Fall 2023

- Built and maintain a production-grade archival platform serving 500+ monthly visitors.
- Implemented Redis caching, reducing API response times and improving system scalability.
- Designed a distributed worker + queue system to schedule, parallelize, and monitor remote processing tasks.
- Developed a custom crawler to automatically ingest, normalize, and archive video metadata at scale.
- Deployed full system with persistent storage, automated processing, and real-time status monitoring.

### 573-Updates - Modular Community News Aggregator

Spring 2025

- Built modular scraping system to collect, standardize, and unify data from multiple community sources.
- Created a modern React single-page application with filtering, search, and responsive views.
- Added PWA capabilities, including offline access and push-style notifications through a service worker.
- Designed scraper architecture for easy expansion, allowing new data sources to be added in minutes.

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

Spring 2023

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

## SKILLS

- Languages: Python, C++, JavaScript/TypeScript, Java, C#
- Tools: React, Redis, MySQL, Postgres, Git, Linux, AWS
- Concepts: Distributed Systems, API Design, Caching, CI/CD