

Yukai Shan

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📍 Irvine, CA

🔗 <https://pinapelz.com>

EDUCATION

University of California, Irvine

Bachelor of Science in Software Engineering - 3.91 GPA

June 2026

- Maintains average GPA above 3.5 across all quarters studied, consistently receiving Dean's Honor List across all terms studied
- Served as an academic course lab tutor during Spring 2023 quarter for I&C SCI 32 (Programming with Software Libraries)
- Contributed to Open-Source Information and Computer Science Student Council Led Projects
- Coursework: Design and Analysis of Algorithms (A-), Requirements and Analysis Engineering, (A+), Introduction to Data Management (A-), Data Structure Implementation and Analysis (A-), Introductory Computer Organization (A), Programming in Multitasking Operating Systems UNIX (A-)

PROJECT

Patchwork Archive

Fall 2023

- Built and maintain a full-stack framework for video archival and metadata management using React, MySQL, S3-compatible storage, Python, and Redis
- Implemented Redis caching to improve API responsiveness and scalability
- Designed a distributed worker and queue system to schedule and allocate tasks across remote servers
- Created a custom crawler to automatically enqueue and archive video content
- Deployed as Patchwork Archive, currently serving around 500 monthly visitors

573-Updates

Spring 2025

- Built a modular web scraping and news aggregation system for arcade gaming communities using Python and React
- Developed Python-based scrapers to collect, standardize, and structure data from multiple sources into JSON
- Created a modern React single-page application (SPA) with filterable views and an intuitive interface
- Integrated Progressive Web App (PWA) features, including a service worker for notifications and offline access
- Designed the system with a flexible modular architecture, allowing easy expansion with new data sources and UI layouts

JHolodex

Spring 2023

- Developed a comprehensive Java wrapper for the Holodex API, supporting all GET and POST requests.
- Implemented functionalities to retrieve detailed channel and video information, including live and upcoming events.
- Set up automated Maven Central Repository deployment via POM file CI/CD, streamlining access and integration for users.

SKILLS

- Technologies: Python, C++, Javascript, Typescript, C#, React, Redis, JSwing, SQL, Rust, AWS, Git, Linux
- Understands software engineering concepts as well as the agile development cycle