Yukai Shan

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— EDUCATION

University of California, Irvine

Bachelor of Science in Software Engineering - 3.896 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)
- 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)

— PROJECT

Patchwork Archive　　　　　　　　　　　　　　　　　　　　　　　Fall 2023

- Primary maintainer of framework designed to download, archive, store, and serve video media as well as additional metadata
- Fully featured and scalable worker and queue system that schedules/allocates tasks to different remotely hosted systems
- Built on top of React, MySQL, S3 compatible storage buckets, and Python
- Custom built crawler script that can be used to automatically enqueue videos for archival
- Currently deployed as Patchwork Archive and serves average 500 monthly visitors

Nijitrack　　　　　　　　　　　　　　　　　　　　　　　　　　Spring 2023

- Fullstack boilerplate template that is designed to track historical YouTube subscriber count
- Uses Python Flask and PostgreSQL as a backend
- Next JS frontend, allowing for ease of customization and excellent SEO optimization
- Uses Python data visualization libraries such as Plotly to pre-render graphs allowing for number of tracked channels to remain scalable while maximizing performance of site
- Currently deployed as PhaseTracker, gaining 800 monthly Google impressions with 18.6% CTR, and 300 monthly visitors

Chronowatcher　　　　　　　　　　　　　　　　　　　　　　　Summer 2024

- A fast performing Rust library used to calculate upcoming weather and convert to in-game time for the online game Final Fantasy XIV
- Minimal dependencies, uses reverse engineered data from game's client
- Over 1200 downloads on Cargo since publishing

— SKILLS

Python ●●●●●　　　　Javascript/Typescript ●●●●●　　　　HTML, CSS ●●●●○

Java ●●●●●　　　　　　　　　　　　C++ ●●●●○　　　　　　　　　　C# ●●●●○

- Technologies: React, Next JS, Redis, JSwing, PostgreSQL, MySQL, NoSQL, Rust, AWS, S3 Buckets, MIPS Assembly, Git, Linux, Bash
- Soft: Team-player, Communication, Learning Mindset, Creative Thinker, Problem Solver
- Familiar with debugging and reverse engineering concepts
- Understands software engineering concepts as well as agile development cycle