# Jun Jie Lai

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## EDUCATION

**San Jose State University**, San Jose, CA — GPA: 3.30
*Bachelor of Science in Software Engineering, Minor in Mathematics* — *Aug. 2022 – May 2025*

**De Anza College**, Cupertino, CA — GPA: 3.38
*Associate's Science in Computer Science and Mathematics, Cum Laude* — *Jan. 2019 – Mar. 2022*

## CERTIFICATION

**Fundamentals of Cybersecurity**, San Jose State University — May 2025

## PROJECTS

**Multi-LLM G3.Chat** | *Go, Valkey, LangChainGo* — May 2025 – Jun. 2025
- Developed modular framework to support for OpenAI, Gemini, and Anthropic models via LangChainGo.
- Implemented Bring Your Own Key (BYOK) and resumable streaming for generation continuity after page refresh.
- Used Valkey to persist active chat sessions and asynchronously migrating data to PostgreSQL on inactivity.

**Real-time Multi-room Chat Application** | *Go, Redis, PostgreSQL* — Mar. 2025 – Apr. 2025
- Developed WebSocket server handling 50+ concurrent rooms and 500+ active users with minimal latency.
- Used Redis to manage user sessions and persist message history.

**YouTube Subscription Manager Backend** | *Go, MySQL, YouTube Data API* — Jan. 2025 – Feb. 2025
- Integrated YouTube Data API to fetch users' subscription and channel info while minimizing quota usage by 30%.
- Implemented Google OAuth 2.0 to get data from user's Youtube Subscription List.
- Developed feature enabling users to create, delete, and rename folders, and organize subscribed channels by adding or removing them.
- Developed MySQL database that stores YouTube channels and channel details from user's subscription list.

**Live-Streaming Web Application** | *Next.js, Prisma ORM, LiveKit API, Clerk API* — Jul. 2024 – Dec. 2024
- Implemented streaming functionalities using LiveKit API, enabling users to stream with WHIP/RTMP protocols.
- Integrated Clerk API with 3rd party OAuth provider for secure user authentication and authorization.
- Utilized Prisma ORM with MySQL to design and manage database schemas.
- Collaborated in team of 4 as part of the senior project course.

**Magic Mirror** | *React, National Weather Service API, Random Quotes API* — Feb. 2024 – May 2024
- Developed interface displaying date, time, weather, daily news and quote on Raspberry Pi 4 Smart Mirror.
- Created a weather forecast functionality displaying and updating forecast based on user geolocation per hour.
- Collaborated with 2 members as part of the SASE Club Spring 2024 Kickstarter Program.

## TECHNICAL SKILLS

**Languages**: Go, Python, SQL (MySQL, PostgreSQL), Java, TypeScript, JavaScript, HTML5
**Frameworks**: React, Next.js, Tailwind CSS
**Developer Tools**: GitHub, Docker, GoLand, PyCharm, IntelliJ, Figma
**Libraries**: OAuth 2.0, Redis, Prisma ORM