

# Jun Jie Lai

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## EDUCATION

<b>San Jose State University</b> , San Jose, CA <i>Bachelor of Science in Software Engineering, Minor in Mathematics</i>	GPA: 3.30
	Aug. 2022 – May 2025
<b>De Anza College</b> , Cupertino, CA <i>Associate's Science in Computer Science and Mathematics, Cum Laude</i>	GPA: 3.38
	Jan. 2019 – Mar. 2022

## CERTIFICATION

<b>Fundamentals of Cybersecurity</b> , San Jose State University	May 2025
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## PROJECTS

<b>Multi-LLM G3.Chat</b>   <i>Go, Valkey, LangChainGo</i>	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.	
<b>Real-time Multi-room Chat Application</b>   <i>Go, Redis, PostgreSQL</i>	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.	
<b>YouTube Subscription Manager Backend</b>   <i>Go, MySQL, YouTube Data API</i>	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.	
<b>Live-Streaming Web Application</b>   <i>Next.js, Prisma ORM, LiveKit API, Clerk API</i>	Jul. 2024 – Dec. 2024
• Implemented streaming functionalities using LiveKit API, enabling users to stream with WebP/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.	
<b>Magic Mirror</b>   <i>React, National Weather Service API, Random Quotes API</i>	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