

Kenneth Liu

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EDUCATION

Stanford University

Stanford, CA

Bachelor of Science in Computer Science, GPA: 4.115/4.0

Jun. 2029

Relevant Coursework: Programming Abstractions, Linear Algebra and Multivariable Calculus, Computer Organization and Systems, Introduction to Probability Theory

WORK EXPERIENCE

Stripe

Seattle, WA

Incoming Software Engineer Intern

Jun. 2026 – Sep. 2026

Stanford Carta

Stanford, CA

Backend Software Engineer

Jan. 2026 – Present

- Migrated the legacy **.NET 6** backend for Stanford's course planning platform to **.NET 8 LTS**, resolving **7 CVEs** and improving request performance by **15%**
- Reduced course planning site's **front-end CI/CD pipeline latency** by **44%** by switching from legacy create-react-app builds to **Rsbuild (Rspack)**

LastingLearn, Inc.

Stanford, CA

Software Engineer Intern

Oct. 2025 – Jan. 2026

- Architected an **AI-native** SAT prep platform using **React** and **Express.js**, integrating LLMs to generate personalized practice problems based on student performance history.
- Engineered a high-performance leaderboard using **Redis** Sorted Sets, reducing query latency by **90%** compared to standard SQL aggregations and handling **500+** concurrent updates.

Baker Engineering and Risk Consultants, Inc.

Houston, TX

Software Engineer Intern

Jun. 2024 – Aug. 2024

- Developed event tree analysis software in **C#/.NET WPF** with dynamic tree editing, reducing analysis time by **80%**

PROJECTS

Vista | Go, Bubble Tea

- Built a **Bubble Tea**-based TUI in **Go** to monitor multiple services simultaneously with per-service and **interleaved log buffers**

BobaFinder | Python, LangGraph, LangChain, MongoDB Atlas

- Built **multi-agent** market entry research system determining the best location for a boba chain restaurant
- Used **LangGraph Swarm** to enable multi-agent collaboration

Decanter ☑ | JavaScript, React, Typescript, Next.js, Node.js, Supabase, PostgreSQL

- Built volunteer management platform for Science Olympiad tournaments using **Next.js** and **Supabase**, implementing Google **OAuth** authentication, attracting **75+** users in the first month
- Used **Vitest** to automate unit testing on server functions with **97%** code coverage, enhancing codebase resiliency

Remix ☑ | JavaScript, TypeScript, React, Vite, GitHub Actions

- Developed a **React** application that resequences Spotify playlists to create smooth transitions based on audio features, reducing average Euclidean distance between audio feature vectors by **58%**
- Integrated **Spotify OAuth** for secure access to playlists and deployed static site with **Github Actions**

TECHNICAL SKILLS

Languages: C, C#, C++, CSS, Go, HTML, Java, JavaScript/TypeScript, Python

Tools: Azure DevOps, Git, Linux, VS Code, Visual Studio

Frameworks: Bubble Tea, Express.js, React, .NET, Next.js, Node.js

Databases: SQL, MongoDB, PostgreSQL

HONORS

3x American Invitational Mathematics Examination (AIME) qualifier