

# Kenneth Liu

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## EDUCATION

### Stanford University

Stanford, CA

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

June 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

- Addressed **7 CVEs** and improved request performance by **15%** by migrating legacy .NET 6 backend to **.NET 8 LTS**
- Reduced **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