

# Kenneth Liu

979-661-4987 | liu.h.kenneth@gmail.com | linkedin.com/in/kennethhliu | github.com/kennethliu0 | kennethliu.me

## EDUCATION

### Stanford University

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

Stanford, CA

June 2029

## WORK EXPERIENCE

### Stripe

Incoming Software Engineer Intern

Seattle, WA

Jun. 2026 – Sep. 2026

### Stanford Artificial Intelligence Laboratory

Undergraduate Researcher

Stanford, CA

Jan. 2026 – Present

- Researching the applications of cost-efficient collaboration between on-device and cloud language models in agentic workflows

### Stanford Carta

Backend Software Engineer

Stanford, CA

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 **Rspack**

### LastingLearn, Inc.

Software Engineer Intern

Stanford, CA

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.

Software Engineer Intern

Houston, TX

Jun. 2024 – Aug. 2024

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

## PROJECTS

### 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**

### Vista

| Go, Bubble Tea

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

## 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

American Computer Science League Bronze Medal