

# Kenneth Liu

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## 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 Rsbuild (Rspack)

### LastingLearn, Inc.

Software Engineer Intern

Stanford, CA

Oct. 2025 – Dec. 2025

- 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