

# Kenneth Liu

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

## EDUCATION

<b>Stanford University</b>	Stanford, CA
<i>Bachelor of Science in Computer Science, GPA: 4.115/4.0</i>	<i>Jun. 2029</i>
Relevant Coursework: Programming Abstractions, Linear Algebra and Multivariable Calculus, Computer Organization and Systems, Introduction to Probability Theory	

## WORK EXPERIENCE

<b>Stripe</b>	Seattle, WA
<i>Incoming Software Engineer Intern</i>	<i>Jun. 2026 – Sep. 2026</i>
<b>Stanford Carta</b>	
<i>Backend Software Engineer</i>	<i>Stanford, CA</i>
<i>Jan. 2026 – Present</i>	
<ul style="list-style-type: none"><li>Migrated the legacy <b>.NET 6</b> backend for Stanford's course planning platform to <b>.NET 8 LTS</b>, resolving <b>7 CVEs</b> and improving request performance by <b>15%</b></li><li>Reduced course planning site's <b>front-end CI/CD pipeline latency</b> by <b>44%</b> by switching from legacy create-react-app builds to <b>Rspack</b> (<b>Rspack</b>)</li></ul>	
<b>LastingLearn, Inc.</b>	Stanford, CA
<i>Software Engineer Intern</i>	<i>Oct. 2025 – Jan. 2026</i>
<ul style="list-style-type: none"><li>Architected an <b>AI-native</b> SAT prep platform using <b>React</b> and <b>Express.js</b>, integrating LLMs to generate personalized practice problems based on student performance history.</li><li>Engineered a high-performance leaderboard using <b>Redis</b> Sorted Sets, reducing query latency by <b>90%</b> compared to standard SQL aggregations and handling <b>500+</b> concurrent updates.</li></ul>	
<b>Baker Engineering and Risk Consultants, Inc.</b>	Houston, TX
<i>Software Engineer Intern</i>	<i>Jun. 2024 – Aug. 2024</i>
<ul style="list-style-type: none"><li>Developed event tree analysis software in <b>C#/.NET WPF</b> with dynamic tree editing, reducing analysis time by <b>80%</b></li></ul>	

## PROJECTS

<b>Vista</b>   <i>Go, Bubble Tea</i>
<ul style="list-style-type: none"><li>Built a <b>Bubble Tea</b>-based TUI in <b>Go</b> to monitor multiple services simultaneously with per-service and <b>interleaved log buffers</b></li></ul>
<b>BobaFinder</b>   <i>Python, LangGraph, LangChain, MongoDB Atlas</i>
<ul style="list-style-type: none"><li>Built <b>multi-agent</b> market entry research system determining the best location for a boba chain restaurant</li><li>Used <b>LangGraph Swarm</b> to enable multi-agent collaboration</li></ul>
<b>Decanter</b>   <i>JavaScript, React, Typescript, Next.js, Node.js, Supabase, PostgreSQL</i>
<ul style="list-style-type: none"><li>Built volunteer management platform for Science Olympiad tournaments using <b>Next.js</b> and <b>Supabase</b>, implementing Google <b>OAuth</b> authentication, attracting <b>75+</b> users in the first month</li><li>Used <b>Vitest</b> to automate unit testing on server functions with <b>97%</b> code coverage, enhancing codebase resiliency</li></ul>
<b>Remix</b>   <i>JavaScript, TypeScript, React, Vite, GitHub Actions</i>
<ul style="list-style-type: none"><li>Developed a <b>React</b> application that resequences Spotify playlists to create smooth transitions based on audio features, reducing average Euclidean distance between audio feature vectors by <b>58%</b></li><li>Integrated <b>Spotify OAuth</b> for secure access to playlists and deployed static site with <b>Github Actions</b></li></ul>

## 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