

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

Incoming Software Engineer

Stanford Carta

Stanford, CA

Jan. 2026 – Present

- Selected for an engineering role within Stanford's data-driven course planning platform.

Software Engineering Intern

LastingLearn, Inc.

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.

Software Engineering Intern

InternNest, Inc.

Houston, TX

Aug. 2024 – Mar. 2025

- Collaborated to build a housing marketplace serving **100+** interns with **React**, **Express.js**, and **RESTful APIs**
- Designed **MongoDB** schema for complex user relationships and preferences and built admin dashboard with property and user management features
- Startup placed in the **top 3%** ranking of **YCombinator**'s startup program

Software Engineering Intern

Baker Engineering and Risk Consultants, Inc.

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

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
 - Implemented **responsive**, **type-safe** React forms using **React Hook Form** and **Zod**, improving client-side validation performance and reducing server-side validation calls and decreasing form latency by **65%**
 - 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 using Traveling Salesman Problem heuristics 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**

OttoGrade

- Python, Flask, SymPy
- Built a full-stack web application to accelerate assignment grading for teachers
 - Developed **Flask API** for automated math grading with **SymPy** integration, achieving **92%** accuracy processing handwritten math with **OCR**
 - Demoed automated math grading technology to the **US Air Force Academy Preparatory School**, receiving adoption interest for integration into high school classrooms

TECHNICAL SKILLS

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

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

Frameworks: 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