

Kevin McLeod

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EDUCATION

Harvard University

Graduation: May 2027

- **B.A. Double Major** in **Computer Science** and **Physics**, GPA: 3.65/4.0
- **Relevant Coursework:** Data Structures and Algorithms, Machine Learning, AI Planning & Learning Methods, Systems Programming & Machine Organization, Data Science, Probability, Linear Algebra, Multivariable Calculus, Computing at Scale

SKILLS

Languages: Python (10+ yrs), JavaScript, TypeScript, C/C++, Java, C#, HTML/CSS, LaTeX

Frameworks & Tools: React, Next.js, Node.js, Redux, Unity, Firebase, Git, Google APIs, Matplotlib, SciPy, Seaborn

Systems & Concepts: Machine Learning, AI, API Development, Game Development, Computer Vision, PyTorch, Linux, Pygame

WORK EXPERIENCE

AI Stealth Startup - Cofounder, Full Stack Engineer (React, Next.js, Tailwind, backend + AI models)

January 2025 - Present

- **Co-founded** an AI startup, collaborating with cofounders on **product strategy**, **market research**, and **user surveys** of 100+ early users to align technical development with customer needs
- **Led product design** and **full-stack development**, delivering a modern web app that enhances user engagement/experience

GP Enterprise Solutions - Frontend/Full Stack Software Engineering Intern (JavaScript, React)

June - August 2025

- **Reduced bugs** by **40%** by fixing critical issues across the platform, resulting in higher retention and reliability
- **Optimized database response times** by **20%** by restructuring filter logic and eliminating redundant queries, enabling faster access to high-volume financial data
- Improved client satisfaction by **launching and optimizing high-demand tools** such as file downloads and form management
- Worked with other engineers, product design, and stakeholders to optimize APIs and frontend design

Harvard AI Research Lab - Research Assistant with Professor Yilun Du (PyTorch)

May - August 2025

- Designed and developed a PyTorch pipeline that extracts per-object 3D centroids from RGB (Mask R-CNN + MiDaS) and optimizes scene plausibility via **energy-based compositional modeling**

Harvard Datamatch - Web Developer (JavaScript, Next.js)

September 2024 - Present

- **Collaborated** with a **cross-functional team** to redesign the website UI using Next.js, improving visual clarity and enhancing the user experience for a platform with **22,000+ users**

PROJECTS

Operating Systems Project - C++

[Source Code](#)

- **Developed a minimal OS from scratch** with a custom heap allocator, virtual memory, and syscall interface
- Built thread-safe I/O and a preemptive scheduler, simulating multitasking and safe concurrent file access
- **Reduced memory usage** by **40%** via coalescing allocator with aligned block reuse and fragmentation mitigation

College Spreadsheets - Python, Pandas, Google APIs, Google Sheets

[Source Code](#)

- **Designed and deployed a data-driven college comparison platform** for high school students, covering 4,000+ colleges and hundreds of different criteria
- Enabled real-time filtering, multi-dimensional search, and dynamic updates via database APIs and Pandas

Light in the Dark - C#, Unity

[Source Code](#)

- **Led a team of 10 people** on a 3D RPG game and **directed cross-functional team coordination** in game design, audio, and UI
- Built animation state machines, modular combat, dialogue, and cutscene systems using event-driven architecture

Biodiversity Hub Website - TypeScript, React, Next.js, Supabase

[Source Code](#)

- Implemented real-time updates, fuzzy search, and client-side sorting using Supabase for back-end storage and live syncing
- Designed adaptive UI with Next.js and Tailwind CSS, optimizing for mobile and low-latency interactions

LEADERSHIP

Harvard Undergraduate Negotiation Club - Founding Board Member and Web Developer

January 2025 - Present

- **Designed and launched the club's [website](#)** using JavaScript and React; improved engagement for events and recruitment

Harvard-Radcliffe Asian American Association (AAA) - Board Member

September 2023 - Present

FIRST Robotics Team 1493 - Head of Electrical and Programming, Pit Chief, and Outreach Lead

September 2019 - June 2023

- **Led** electrical/programming and outreach; Ranked 23rd at 2022 **FIRST Robotics World Championship** (Houston, TX)

Hobbies: Music (Piano, Clarinet, Marimba), Dance, Art, Running, Frisbee, Learning Chinese, Travelling