

Caleb Kha-Uong

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EDUCATION

Princeton University

Sept. 2024 – May 2028

Bachelor of Engineering in Computer Science

GPA: 3.65/4

Relevant Coursework: Data Structures & Algorithms, Machine Learning, Programming Systems, Theory of Algorithms, Graph Theory, Principles of Computer System Design, Reasoning about Computation, Neural Rendering

TECHNICAL SKILLS

Languages: Python, Java, C, Go, Assembly, JavaScript/TypeScript

Libraries/Frameworks: PyTorch, Transformers, NumPy, HuggingFace, pandas, scikit-learn, React/Next.js, Tailwind

Databases/Cloud: PostgreSQL/SQL, Supabase, Django, Firebase, Docker, Git, Vercel, FastAPI

WORK EXPERIENCE

Alexandria.ai

Sep. 2025 – Present

Founding Engineer

Boston, MA

- Built and shipped an **RAG-based** internal research search platform indexing lab knowledge across **Slack, Google Drive**, publications, and uploads, returning answers with **source-linked citations** and user-controlled sync/privacy settings.
- Engineered **workflow + methodology tracking**, including task assignment, reusable **templates/protocols**, and **Slack/email integrations**; built an assistant that surfaces prior work and related artifacts to reduce duplicated effort.
- Raised **\$XXK** in initial funding to accelerate product development and pilots.

Princeton University

Sep. 2025 – Present

Undergraduate Course Assistant

Princeton, NJ

- Graded COS226 (Data Structures & Algorithms) programming assignments for **200+** students as part of a 5–6 person course staff, delivering rubric-aligned feedback on correctness, time complexity, code quality, and edge-case handling.

Princeton Vision & Learning Lab

Sep. 2025 – Present

Machine Learning/Computer Vision Researcher

Princeton, NJ

- Engineered an automated camera-intrinsics animation engine for synthetic video generation, generating depth-of-field effects with configurable zoom curves and smooth autofocus schedules across rendered scenes.
- Modeled lens breathing by coupling focus distance updates to effective focal length / FOV changes, improving photorealism and alignment with real-camera behavior.

HackPrinceton

Sep 2025 – Present

Development Team Lead

Princeton, NJ

- Owned the development of HackPrinceton's production web platform powering application intake, registration, and event logistics for **5,000+** applicants; shipped end-to-end workflows (webpage, admin/reviewer tooling, check-in) and maintained reliability through deadline traffic spikes.
- Partnered with organizing team to deliver Princeton's largest Ivy League hackathon; helped secure **\$80K+** in sponsorship (OpenAI, Anthropic, Amazon, xAI, etc.)

Princeton Intelligent Performance & Adaptation Lab

Sep. 2024 – Present

AI Researcher

Princeton, NJ

- Cut LLM hallucinations **25%** in a 20k-fact QA study by switching interleaved to blocked curricula across 6 spacing levels, with no recall loss (1,000+ trials).
- Implemented a pattern-induced hallucination benchmark over **22,000+** QA instances with automated labeling, measuring hallucination rates from **5.8%** to **32.9%** across various open-source LLMs.

MyChance.ai

Apr. 2025 – Jan. 2026

Fullstack Engineer

Princeton, NJ

- Launched MyChance.ai, a college-admissions platform serving **8,000+** users, and owned end-to-end full-stack development + deployment (Next.js, Supabase/Postgres, Vercel, Stripe) across matching, essay review, and timeline workflows.
- Built a school matchmaking engine using weighted signals (interests, stats, deadlines), increasing qualified match saves by **95%**.