

Caleb Kha-Uong

(303) 618-2650 | ck2867@princeton.edu | linkedin.com/in/calebk25 | github.com/calebK25 | caleb-k.com

EDUCATION

Princeton University

May 2028

Bachelor of Engineering in Computer Science

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

TECHNICAL SKILLS

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

ML/AI: PyTorch, Transformers, Hugging Face, NumPy, pandas, scikit-learn

Web/Backend: React, Next.js, FastAPI, Django

Databases/Cloud/Tools: AWS, Slurm, HPC/GPU Clusters, PostgreSQL, SQL, Supabase, Firebase, Docker, Git, Vercel

WORK EXPERIENCE

Dimare Inc.

May 2026 – August 2026

Incoming Software Engineer Intern

Tokyo, Japan

AlexandriaAI

Sep. 2025 – Jan. 2026

Founding Engineer

Boston, MA

- Built a RAG platform that indexed internal lab documents and served lab-specific answers to researchers.
- Designed database schemas, an internal DAL, and backend APIs; built retrieval and vector-search pipelines on OpenSearch, S3, and Bedrock to improve knowledge ingestion across lab workflows.
- Raised **\$50,000** in initial funding to accelerate product development and pilot deployments.

Princeton Vision & Learning Lab, PI: Jia Deng

Sep. 2025 – Present

Machine Learning & Computer Vision Researcher

Princeton, NJ

- Built synthetic data pipelines for dynamic intrinsics prediction, generating per-frame ground-truth labels across **152K+** annotated frames in **635+** videos.
- Implemented dynamic zoom/focus variation, lens distortion, and defocus blur in the data generator to diversify intrinsics and improve RGB intrinsics supervision.

HackPrinceton

Sep 2025 – Present

Development Team Lead

Princeton, NJ

- Led and built HackPrinceton's website and backend systems for application intake, registration, reviewer/admin tooling, and check-in for **5,000+** applicants.
- Secured **\$80K+** in sponsorship from OpenAI, Anthropic, Amazon, and xAI, and helped run Princeton's largest Ivy League hackathon.

Princeton Intelligent Performance & Adaptation Lab

Sep. 2024 – Present

AI & Cognitive Science Researcher

Princeton, NJ

- Built evaluation pipelines for OpenAI and Anthropic funded LLM hallucination studies, including benchmark setup, experiment runs, metric computation, and analysis.
- Reduced training and evaluation time by **42%** by optimizing GPU cluster workflows for hallucination studies.
- Built a pattern-induced hallucination benchmark with **22,000+** QA instances and automated labeling, measuring rates from **5.8%** to **32.9%** across open-source LLMs.

PROJECTS

MyChance.ai | *Next.js, Supabase/Postgres, Vercel, Stripe*

Apr. 2025

- Built and shipped a college admissions platform (matching, retrieval-augmented LLM essay feedback, tracking, and payments) used by **8,000+** students.

PUBLICATIONS

Gupta, M.W., **Kha-Uong, C.**, Taylor, J.A., and Cohen, J.D. *A Unifying Account of False Memories in Humans and In-Context-Learning Hallucinations in Large AI Models* (in prep; CogSci 2026 submission).

Liang, E., **Kha-Uong, C.**, Saran, C., Dey, S., Liu, D.W., Ouyang, H., Zhou, B., and Deng, J. *InFlux++: Real and Synthetic Data for Estimating Dynamic Camera Intrinsics* (in prep; ECCV 2026 submission).