

Kevin Chu

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Top-performing UC Berkeley Computer Science and Data Science double major (GPA: 4.0) with hands-on experience in machine learning, systems engineering, and open-source development. Contributed to performance-critical C++ modules at Google OSS, and applied deep learning to real biomedical and LLM problems in research at UCSF and BAIR. Known as a reliable team player and fast learner, with a track record of delivering well-tested, production-quality code. Seeking a Summer 2026 SWE or AI internship to contribute immediately in software engineering or AI teams.

Education

B.A. University of California, Berkeley — Computer Science, Data Science Aug 2024 – Present

Expected Graduation: May 2028 | GPA: 4.0/4.0

Relevant Coursework:

- CS 61A: Structure and Interpretation of Computer Programs (Python, Scheme)
- CS 61B: Data Structures and Algorithms (Java)
- CS 70: Discrete Mathematics & Probability Theory
- Data 8: Introduction to Data Science – Statistical Modeling
- Data 100: Principles and Techniques of Data Science
- Math 53: Multivariable Calculus
- Math 56: Linear Algebra

HS Northwood High School, Irvine, CA Aug 2020 – Jun 2024

Weighted GPA: 4.43/4.0, Unweighted 4.0/4.0

- AP Courses: CS A, CS Principles, Statistics, Physics 1, Physics C, Biology, Chemistry, Spanish, US Government

Other Coursework Summer 2022 – Spring 2023

- CS 31 (Intro C++) at UCLA, Grade: A
- Calculus I/II at Chapman University, Grade: A

Technical Skills

Languages: Python, C++, Java, HTML, CSS, JavaScript, SQL, Scheme, LaTeX

Frameworks & Tools: PyTorch, TensorFlow, Keras, scikit-learn, Pandas, NumPy, vLLM, Volcano Engine RL, Docker, Git, Github, Cursor, Linux

Web & Dev: Vue.js, React.js, Flask, Django, Node.js, Vercel, Pycord

General: Machine Learning, Deep Learning, Data Science, Competitive Programming, Adobe Creative Cloud, MS Office

Experience

Computational Precision Health, UCSF and UC Berkeley — Researcher Berkeley, CA
May 2025 – Present

- Advised by Ahmed Alaa, Frances Dean
- Determining long term time-series cardiovascular disease risk in Immune Check-point Inhibitor treated patients using Deep Learning for ECGs

Berkeley AI Research — Researcher Berkeley, CA
May 2025 – Present

- Berkeley Speech Group
- Advised by Gopala Anumanchipalli, Akshat Gupta
- Reasoning Models and Chain of Thought Faithfulness

Google OSS — Machine Learning Software Engineering Intern

Apr 2023 – Aug 2023

- Contribute to Google's open-source 'net/http' module, improving performance through C++ multithreading optimizations.
- Build and benchmark machine learning-based performance models for network throughput in Linux VM environments.
- Used internal Google development workflows and Linux networking tools for large-scale testing.

COSMOS @ UCI — Data Science in Biomedical SciencesIrvine, CA
Jul 2023 – Aug 2023

- Led a statistical & ML study on Alzheimer's disease: analyzed effect of physical factors on gray-matter-to-intracranial-volume ratio
- Employed R and Python (scikit-learn, tidyverse) for preprocessing, modeling, and visualization on biomedical datasets

LingoX — Technology Officer (Volunteer)Irvine, CA
Jul 2022 – Aug 2023

- Developed and maintained organization website using Vue.js, focusing on responsive UI/UX (lingox.org)
- Collaborated with content team to deploy new features and analytics

Fiverr — Discord Bots Developer (Freelance)Remote
Jan 2022 – Present

- Designed and developed 10+ custom Discord bots for clients using Python and Pycord, automating tasks such as moderation, web scraping, data tracking, and alerts.
- Integrated Pandas for data processing and delivered scalable, user-friendly interfaces.

USA Computing Olympiad, Gold Division (Top ~10% of participants nationally), Achieved in December 2022

Projects

CS 61B Build-Your-Own-World — 2D Game Engine (Java)

Nov 2024

- Interactive tile-based game with character movement, with random map generation, dynamic themes, and lighting/shading effects using tile-based rendering
- Applied graph search and path-finding algorithms; followed clean OOP design patterns

Personalized Messaging Assistant (Python, Pandas, OpenAI API)

Jul 2024

- Fine-tuned OpenAI's GPT4o using personal message history to create real-time draft replies. Built data preprocessing pipeline with Pandas and implemented prompt engineering for personalized responses.

Discord Stock Bot (Python, Pycord, Pandas, Plotly, Polygon.io)

Jun 2022

- Streams real-time market data, generates on-demand graphs & CSV exports with key custom metrics for quick trading insights

Snake AI (PyTorch, Pygame)

Jul 2022

- Trained Deep-Q-Learning agent to play classic Snake achieving high survival rights in gameplay simulation