

# Kevin Chu

📍 Berkeley, CA ✉ chuk1123@berkeley.edu 📞 (949) 508-5818 🔗 chuk.vercel.app in kevinchu06 🐙 chuk1123

## Education

---

- B.A. University of California, Berkeley** — Data Science and Computer Science Aug 2024 – Present  
GPA: 4.0/4.0  
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, JavaScript, SQL, Scheme, LaTeX  
Git/GitHub, TensorFlow, PyTorch, Keras, Scikit-Learn, Pandas, Vue.js, Pycord, MS Office, Statistical Modeling

## Experience

---

- Computational Precision Health, UCSF and UC Berkeley** — Researcher Berkeley, CA  
May 2025 – Present
- Advised by Ahmed Alaa, working with Frances Dean
  - Determining long term cardiovascular disease risk in ICI treated patients using AI for ECGs
- Berkeley AI Research** — Researcher Berkeley, CA  
May 2025 – Present
- Berkeley Speech Group
  - Advised by Gopala Anumanchipalli, working with Akshat Gupta
  - Reasoning Models Chain of Thought Faithfulness
- Google Open Source Software** — Machine Learning Software Engineering Intern Apr 2023 – Aug 2023
- Contribute to the net http repository on google open source software projects
  - Gain experience in google development tools/workflow, working in Linux VM
  - Linux networking, OS, multi-threading C++ programming, machine learning based performance models for net http module

### **COSMOS Summer School @ UCI** — Data Science in Biomedical Sciences

Irvine, 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

### **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](https://lingox.org) )
- Collaborated with content team to deploy new features and analytics

### **Discord Bot Freelancer**

Remote

Jan 2022 – Present

- Design and deploy custom Discord bots using Python & Pycord, integrating APIs for automation and analytics
- Handle client data processing needs with Pandas

## **Awards**

---

- **USA Computing Olympiad, Gold Division**, Achieved in December 2022

## **Projects**

---

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

Nov 2024

- Implemented random world generation, dynamic lighting and shading using tile-based rendering
- Applied graph search and path-finding algorithms; followed OOP design patterns

### **Personalized Messaging Assistant** (Python, OpenAI API)

Jul 2024

- Fine-tuned GPT model on personal chat history to generate context-aware draft replies in real time

### **Discord Stock Bot** (Python)

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

[github.com/chuk1123/stock\\_bot](https://github.com/chuk1123/stock_bot) 

### **Snake AI** (PyTorch, Pygame)

- Trained Deep-Q-Learning agent to play classic Snake; visualized training curves and gameplay

[github.com/chuk1123/snake\\_ai\\_2](https://github.com/chuk1123/snake_ai_2) 