

Kelly Hu

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EDUCATION

University of California, Berkeley

Berkeley, CA

B.A. in Computer Science and Data Science | GPA: 3.7

Expected May 2027

Courses: *Intro to Python, Data Structures & Algorithms, Principles of Business, Linear Algebra, Principles & Techniques of Data Science, Intro to Economics, Multivariable Calculus, Probability Theory, Data Engineering, Discrete Math*

Organizations: *Valley Consulting Group, CS Mentors, SAAS Data Science @ Berkeley, CS Scholars, CS Kickstart*

Certificates: *UC Berkeley Sutardja Center for Entrepreneurship & Technology Certificate, 2024*

WORK EXPERIENCE

Amazon – Software Development Engineer | Seattle, WA

May 2025 - Aug 2025

- Built an AI-powered multi-agent system using **Strands Agent SDK and Agent2Agent (A2A) protocol** to augment Amazon's **Streamlit-based** space planning tool, enabling planners to query supply/demand data, interpret optimization results, visualize data, validate constraints, and generate allocation reports via natural language.
- Designed and implemented **full-stack agent orchestration architecture**, integrating with LP solvers, Amazon S3, DynamoDB tables, and internal data sources to streamline workflows, **reducing manual planning and validation time by 30%**.
- Migrated the agent application from **Amazon ECS to AWS AgentCore Runtime**, implementing short-term memory, observability tooling, and horizontal scaling to enhance performance, traceability, and reliability; earned **1st place in program-wide hackathon**.

Moore Accuracy Lab – Machine Learning Research Assistant | Berkeley, CA

Feb 2024 - Aug 2025

- Investigated Large Language Model overconfidence in several benchmarks by using **OpenAI API and Llama-3.1 8B model** to analyze the correlation between the stated confidence levels of the model and its actual accuracy, employing a **one-sample t-test**.
- Conducted a **replication study** of Francesca Gino's 2010 research, addressing allegations of scientific misconduct in the research community. Collected over 80 responses on Qualtrics and then performed a **2 x 2 ANOVA and mixed-measures ANOVA**.

US Environmental Protection Agency (EPA) – Data Scientist (Contract) | Berkeley, CA

Sep 2024 - Dec 2024

- Utilized **XGBoost and LSTM models** to analyze over **10,000 data points**, identifying key relationships between per/poly-fluoroalkyl substances (PFAS) and geological factors across California.
- Worked closely with a team of 6 data scientists to apply regression models to assess health risks, pinpointing the top 10% of regions most susceptible to PFAS contamination with correlating socioeconomic census data.

Pacific Gas & Electric Company – Machine Learning Consultant | Berkeley, CA

Oct 2023 - Nov 2023

- Integrated a thorough understanding of data collection, pre-processing, modeling, and deployment strategies in **image classification and object detection** with Amazon Web Services. Conducted interviews with 3 esteemed Berkeley Electrical Engineering and Computer Science (EECS) professors on new ML technology.
- Explored, evaluated, and proposed innovative use cases for the **Remote Data Sensing Platform** that addresses critical business challenges and opportunities within the energy sector—designed a Machine Learning Architecture with the latest advancements.

LEADERSHIP & PROJECTS

UC Berkeley College of Computing, Data Science, and Society

Jan 2024 - Present

Data 100 Teaching Assistant

Berkeley, CA

- Lead a discussion of over **50 students** teaching advanced data science concepts. Conduct weekly office hours for Data 100 (Principles and Techniques of Data Science), providing academic support for students.

Kinesi

June 2024 - Nov 2024

Chief Design and Technology Officer

Porto, Portugal

- Designed and prototyped an engaging, easy-to-use, and time-efficient platform powered by AI to seamlessly integrate home exercise programs into patients' daily lives, transforming rehabilitation to serve both providers and patients. Used **Figma and React** for development. Leveraged insights from client interviews and surveys to develop product features.

Computer Science Kickstart

August 2023 - August 2024

Co-Director of Alumni Relations

Berkeley, CA

- Facilitated outreach efforts, built connections with the **network of 200+ CSK alumni**, and planned enriching alumni events like weekly newsletters. Ensured a tight-knit community within the organization and mentorship opportunities.

TECHNICAL SKILLS

Languages: Python, R, SQL, Java, JavaScript, TypeScript, HTML, CSS, C++

Frameworks & Libraries: React, Streamlit, PyTorch, TensorFlow, scikit-learn, pandas, NumPy, Matplotlib

Tools & Platforms: AWS, Git, Figma, Power BI, VS Code, Databricks, Docker

AI/ML: XGBoost, LSTM, LLMs, NLP, Computer Vision, Strands Agent SDK, Agent2Agent

Interests: Dance (Contemporary/Hip-Hop), Outdoor Activities, Spontaneous travel, Tech House, Books, Movies