Cameron Keith

Alamo, CA · (925) 984-5116 · cameron.s.keith.26@dartmouth.edu
LinkedIn profile, personal website, portfolio

Education

Dartmouth College, Hanover, NH **June 2026**
Bachelor of Science, intended Major in Computer Science, Minor in Economics:
GPA 3.63/4.0
Relevant Coursework and Activities

- CS: Object Oriented Programming (Fall 2022), Software Design and Implementation (Winter 2023), Foundations of Applied CS/ML (Fall 2023), Machine Learning (Winter 2024), Deep Learning (Spring 2024)
- Econ: Microeconomics (Winter 2023), Intro to Statistical Methods (Spring 2023), Intermediaries and Markets (Fall 2023)
- Clubs: Association for Computing Machinery, Rocket Club, Scholars of Finance

De La Salle High School, Concord, CA **June 2022**
Honors/Awards: AJGA Rolex Scholastic All American, 2021 Junior Olympian of the Year, AP Scholar, National Merit Commended Scholar
SAT Score: 1510 (800 Math, 710 Reading/Writing) **GPA 4.23**

Technical Skills

Computer/Technical: Java, Machine Learning, Python, Autodesk Fusion, C, PyTorch, Firebase, Data Scraping

Engineering and Coding Projects

Neural Network Digit Classifier **November 2023**
Dartmouth College, Hanover, NH

- Built a neural network from scratch in Python to classify handwritten digits
- Achieved the highest accuracy score of 92.5% among 150 CS students in the NN competition
- Won a citation of merit in Foundations of CS/ML

Artificial Intelligence and Machine Learning **June 2023 - August 2023**
The University of Chicago

- Developed a quantitative time series model to predict prices of publicly traded REITs for the final project
- Incorporated real-time sentiment analysis to enhance model performance

Tiny Search Engine **February 2023 - March 2023**
Dartmouth College, Hanover, NH

- Designed a tiny search engine from scratch in C
- Composed project into crawler, indexer, and querier modules
- Optimized efficiency with hashtable to counters data structure

Parts of Speech Predictor **September 2022 – November 2022**
Dartmouth College, Hanover, NH

- Created a 93% efficient model to output parts of speech for any text
- Trained an original HMM with sentence and parts of speech data

Leadership & Additional Activities

Dartmouth Varsity Golf Team (NCAA D1), Hanover, NH **October 2022 – Present**
Student Athlete

- Led the team in the Alister Mackenzie Invitational hosted by CAL Berkeley
- Won the Cornell v Dartmouth Match as an individual

De La Salle High School, Concord, CA **September 2021 – June 2022**
Captain of the Golf Team

- Helped our golf team win the 2022 CIF CA State Golf Championship
- Optimized team practices with our coach to help foster team unity and commitment to the team
- Won all postseason tournaments during the same year (EBAL League Championship, North Coast Section Championship, and Northern CA Championship)

Interests

Golf, Downhill Skiing, Chess, Table Tennis, AI LLMs, Proficient in Spanish, Tennis, Drone Photography

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Additional Notable Projects

Poisson Image Blending **October 2023**
Dartmouth College, Hanover, NH
- Implemented Poisson Image Blending and gradient-domain image processing
- Blended source image into target image seamlessly
- Preserved background image and changed only target image to maintain the gradient of the source region

Forensic License Plate Recognition **September 2023**
Dartmouth College, Hanover, NH
- Created algorithm to remove distortion of a planar surface and move one's perspective to face on
- Solved homography matrix to map old image to new image

Software Engineering Virtual Experience **February 2023**
JP Morgan Chase & Co.
- Interfaced with a stock price data feed
- Utilitized JPMC frameworks and tools to visually display data for traders

CO2 Race Car Project **March 2022**
De La Salle High School, Concord, CA

- Won high school CO2 car race with the most aerodynamic and lightest car
- Designed unique car in Autodesk Fusion 360
- Optimized aerodynamics of race car in CFD virtual wind tunnel
- Constructed car with 3D printed parts and CNC parts to optimize the center of mass

Texas Hold-Em Xcode App **May 2019**
De La Salle High School, Concord, CA
- Developed a functional four-player Texas Hold-Em app in two weeks
- Designed a user-friendly app with Xcode and Swift