

# JAMES GUO

UCLA SCHOOL OF ENGINEERING AND APPLIED SCIENCES – COMPUTER SCIENCE MAJOR

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## ABOUT ME

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**Programming Languages** Python, C/C++, Java, Swift, SQL, Git, Bash, React/JS,  $\text{\LaTeX}$   
**Languages** Fluent in Chinese; Conversational Proficiency in Spanish  
**Technologies** Emacs, Linux, Tensorflow, VSCode, Kubernetes, Microsoft Office  
**Interests** Poker, Basketball, Investing, Boxing, Cooking

## WORK EXPERIENCE

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### iHerb, LLC

Irvine, CA

Machine Learning Engineer Intern, Data Science

(June 2021 – Present)

- Used Tensorflow graph freezing and concrete functions to cut all models first predict time by 75 percent
- Developed and released pattern matching, categorization, and flagging packages for product reviews
- Tested VertexAI NNs for demand forecasting against internally-made Random Forest classifiers

### UCLA Anderson School of Management

Los Angeles, CA

Data Analyst and Research Assistant, Political Finance

(November 2020 – June 2021)

- Created and implemented algorithm associating schools with ideology scores based on political donations
- Scraped Wikipedia using Python to create a web app database linking school biographies and ideologies
- Cleaned data using fuzzy logic to fix discrepancies in respondent answers in FEC Database

### The Boeing Corporation

El Segundo, CA

Software Engineering Intern, Satellite Systems

(June 2019/2020 – August 2019/2020)

- Wrote Python application to automate the analysis of employee management excel files for each satellite
- Used Docker to containerize and generate environment for employee management application
- Created a 3-month schedule with goals and deadlines to solve a payload design issue on a campus project

## COMPETITIONS AND PERSONAL PROJECTS

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### Stock-Ed

(May 2021)

- Worked in a team to develop a Stock Trading Game and Education Web-App using React and NodeJS
- Wrote back-end code to develop retrieve cloud data, as well as handle stock trading and portfolio logic
- Used Figma to design Web-App layout

### Sandia National Laboratories Space Blimp Hackathon

(April 2021)

- Participated in team of three to compete against West Coast schools and win 2nd place in ML/NLP challenge
- Worked on tracking algorithms matching real vs fake space blimps to locations based on movement constraints
- Helped develop an image processing algorithm to locate space blimps within satellite camera snapshots.

### Rush

(November 2020)

- Developed iOS App allowing students/alumni to review UCLA Organizations, Greek Life, and Clubs
- Used SwiftUI to build Full-Stack with Authentication, Firebase Data and Image Storage and User Interface
- Networked and partnered with organizations and students to increase app outreach and usage

### Malloc()

(November 2020)

- Implemented my own version of the malloc function in C using buddy list memory allocation algorithm
- Programmed multiple back-testing features analyzing function speed, storage capability, and accuracy
- Obtained 98 percent overall efficiency compared to the C STL malloc function

## EDUCATION

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### University of California, Los Angeles

Los Angeles, CA

B.S. Computer Science

(Expected Graduation: June 2023)

- Major GPA: 4.0/4.0
- Organizations: Association of Computing Machinery, Delta Sigma Pi
- Coursework: Algorithms and Complexity, Artificial Intelligence, Formal Languages, Operating Systems, Software Construction, Data Structures, Computer Organization, Discrete Math