Andrew Zhao

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EDUCATION

University of California, Berkeley   **GPA 3.902/4.0**
Dual Degree: Computer Science, Statistics B.A.   *Exp. May 2023*
- **Relevant Coursework**: Efficient Algorithms, Data Structures, Designing Information Devices and Systems, Discrete Mathematics, Probability Theory, Advanced Programming in R, Cloud Computing and SaaS, Foundations of Data Science
- **Activities**: Data Science Society (Project Team), Swim Club at Berkeley

WORK EXPERIENCE

Trustlook   **San Jose, CA**
Software Engineering Intern   *June 2020 - August 2020*
- Designed a faster Python document similarity algorithm utilizing SimHash, tested multiple hashing algorithm approaches
- Optimized malware manifest detection using Scikit-learn TFIDF vector machine, improving false positive rate by 20%+
- Assisted the CTO in writing up software set-up manual and 6 research articles on product performance for company blog

The Coder School   **San Ramon, CA**
Coding Instructor   *July 2019 - August 2019*
- Directed weekly lessons for kids with a variety of skill levels to develop understanding of programming fundamentals
- Curated curriculum to students' progress and conducted personalized check-ins evaluating areas for improvement

Calphin Aquatic Club   **Dublin, CA**
Swim Instructor   *May 2017 - August 2018*
- Coached 20+ classes with over 100 beginner to intermediate level swimmers on swimming fundamentals
- Assisted managerial staff in training new hires/curriculum development and marketed outreach targeting local schools

PROJECTS

Squadss - iOS Group Messaging App   *August 2020 - Present*
- Identified & solved 25+ platform bugs, designed & built social media Sqroll feature displaying tweets and news articles
- Led a team of three other engineers to code a Python content recommendation system generating unique media to groups
- Integrated Tweepy's Twitter API and Bing's search API to stream media JSON through utilization of multithreading

BearChat - Social Media App   *September 2020 - December 2020*
- Built a Golang social media platform deployed on a VM hosted on AWS EC2 composed of four microservices that allow users to create posts and interact with friends' posts, containerized utilizing Docker
- Configured an AWS Neptune graph database for friends functionality and MySQL database for storing account info

NFL Draft Sentiment - DSS   *November 2020*
- Utilized VADER NLP library to web-scrape Redditors' sentiment of player picks during NFL 2020 draft pick
- Designed graphs to analyze correlation and predict player's performance during the season based on fan opinions of pick

Oski Dino - Cal Hackathon   *October 2020*
- Developed a Javascript Google Chrome Extension featuring a Cal-themed version of Chrome's no internet t-rex game

PROGRAMMING

- **Languages:** Python, Java, Golang, JavaScript, C, Swift, R, SQL
- **Frameworks and Tech:** Git, AWS, Scikit-Learn, Numpy, Pandas, Docker, API, CI/CD, JWT, HTTP, Markdown, LaTeX
- **Websites: andrewzzhao.github.io, playleadership.org**

SKILLS & INTERESTS

- Fluent in Chinese, 5 years of Spanish
- Enjoys volunteering, sci-fi movies, philosophical debates, kdramas, swimming, tennis, and surfing