Anderson **Tsai**

Computer Science Major · University of California, Berkeley

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About Me

Technical Skills Python · Java · C/C++ · mySQL · Scheme · HTML · PHP · React · JavaScript · LaTeX

Interests Software Engineering · Artificial Intelligence · Natural Language Processing · Computer Vision

Education

University of California, Berkeley
Berkeley, CA

B.A. in Computer Science — *2019 - 2023*

- Structure and Interpretation of Computer Programs
- Data Structures
- Great Ideas in Computer Architecture (Machine Structures)
- Discrete Mathematics and Probability Theory
- Operating Systems and Systems Programming
- Efficient Algorithms and Intractable Problems
- Introduction to Artificial Intelligence
- Computer Security
- Designing Information Devices and Systems I and II
- The Foundations of Data Science

Work Experience

Allganize
Oakland, CA

Software Engineering / Artificial Intelligence Intern — *May 2021 - August 2021*

- Managed backend of AI application. Made performance improvements, implemented new features, and fixed bugs.
- Overhauled OCR pipeline for document ingestion, and greatly improved efficiency and accuracy.
- Improved user targeting, and implemented third-party messaging application integrations (i.e. Slack, Facebook Messenger, etc.) in order to allow AI utilization on these platforms.

Skoruz Technologies
Fullerton, CA

Software Engineering Intern — *June 2019 - May 2020*

- Used Python and Java to automate change data capture (CDC) between various data sources (Hive, mySQL, msSQL, MariaDB, Oracle) while leveraging data analytics tools such as Apache Nifi and Apache Kylo.
- Used Python to create adaptive optical character recognition software that picks up tax information from an invoice and used HTML and PHP to create a graphical user interface. Produced for Kotak Mahindra Bank.

UAVs@Berkeley
Berkeley, CA

AutoNav Engineer and External Affairs Officer — *January 2020 - April 2020*

- Created image classification for a UAV to quickly identify the location, shape, color, and number of an object in a field.
- Created search algorithm for UAV to efficiently navigate through a field of dynamic obstacles.
- Secured sponsors and managed outreach efforts to greatly increase interest in the club.
- Written in Python and utilizes OpenCV and YOLO.

GBC International Bank
Monterey Park, CA

Project Management Intern — *June 2019 - August 2019*

- Coordinated a team of five others to create workflows that automate the processing of documents and streamlines the process for other employees at the bank.
- Created a foundation for workflow automation and established the effective uses of the workflow program. Integrated workflows for the first time at this bank.

Competitions and Personal Projects

EasyEV

LAHacks 2021 — *March 2021*

- BlackRock challenge winner. Created web application with React front-end, Javascript back-end, Google Cloud, Twilio, news, and stock API's that assists user in being informed about electric vehicles and helps the user in purchasing one through a simple and personalized experience.

Cal Poly Pomona Programming Contest

California State Polytechnic University, Pomona — *May 2019*

- Participated in programming competition with hundreds of other competitors and teams from the Southern California area.
- Sponsored by Northrop Grumman, National Security Agency, Snapchat, and Google.
- Placed within high school division.