

# Anderson Tsai

COMPUTER SCIENCE MAJOR · UNIVERSITY OF CALIFORNIA, BERKELEY

☎ (909)-539-7599 | ✉ andersontsai87@gmail.com | 🏠 anderson-tsai.github.io | 📷 anderson-tsai | 📺 andersontsai

## Education

### University of California, Berkeley

Berkeley, CA

B.A. IN COMPUTER SCIENCE AND B.A. IN DATA 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
- Introduction to Computer Vision and Computational Photography
- 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.
- Researched and integrated multimodal AI model that finds the most relevant image to a client text query among a client's documents.

### Skoruz Technologies

Fullerton, CA

SOFTWARE ENGINEERING INTERN

June 2019 - May 2020

- 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)
- Constructed Change Data Capture (CDC) pipeline that performs ETL (extract, transform, and load) jobs into Hive for company's business analytics platform.
- Developed a program to automatically and dynamically modify templates and deploy templates as data feeds.
- Ingested records as Delta tables, providing teams with thorough data versioning and powerful metadata processing through Spark.

### 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 (Written in Python and utilizes OpenCV and YOLO).
- Secured sponsors and managed outreach efforts to greatly increase interest in the club.

### 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.

## About Me

**Technical Skills** Python · Java · C/C++ · MySQL · Scheme · HTML · PHP · React · JavaScript · 

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