Anderson **Tsai**

COMPUTER SCIENCE MAJOR · UNIVERSITY OF CALIFORNIA, BERKELEY

(909)-539-7599 | andersontsai87@gmail.com | anderson-tsai.github.io | anderson-tsai | andersontsai

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.
- 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.