

Anderson Tsai

COMPUTER SCIENCE MAJOR · UNIVERSITY OF CALIFORNIA, BERKELEY

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Education

University of California, Berkeley

Berkeley, CA

B.A. IN COMPUTER SCIENCE AND B.A. IN DATA SCIENCE

2019 - 2023

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

Work Experience

Salesforce

San Francisco, CA

SOFTWARE ENGINEERING INTERN

May 2022 - August 2022

- Utilized internal tools to diagnose consumer websites (e.g. Robot Process Automation), discovered bugs and bottlenecks in the user interfaces, and proposed solutions.
- Improved front-end performance over three different websites by 77% on average.
- Established front-end performance practices and workflows for the first time at MuleSoft (a Salesforce company).

Allganize

Oakland, CA

SOFTWARE ENGINEERING / ARTIFICIAL INTELLIGENCE INTERN

May 2021 - November 2021

- Managed back-end of AI application. Made performance improvements, implemented new features, and fixed bugs.
- Overhauled OCR pipeline for document ingestion. Improved efficiency by reducing processing times by 20% and increasing accuracy by 12%.
- Researched and integrated multi-modal AI model that finds the most relevant image to a client text query among a client's documents. Led to signed deal for the company.

Skoruz Technologies

Newark, 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. Led to signed deal with 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 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.

About Me

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