

# Anderson Tsai

COMPUTER SCIENCE MAJOR · UNIVERSITY OF CALIFORNIA, BERKELEY

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## Education

### University of California, Berkeley

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

Berkeley, CA

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

### Intel

SOFTWARE ENGINEERING INTERN

Santa Clara, CA

September 2022 - Present

- Working on developing high performance and complexity power management tool.

### Salesforce

SOFTWARE ENGINEERING INTERN

San Francisco, CA

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

SOFTWARE ENGINEERING / ARTIFICIAL INTELLIGENCE INTERN

Oakland, CA

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

SOFTWARE ENGINEERING INTERN

Newark, CA

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

AUTONAV ENGINEER AND EXTERNAL AFFAIRS OFFICER

Berkeley, CA

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.

## 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 · 𐀀𐀁𐀂𐀃