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 · LaTeX

Interests Design · 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
- Efficient Algorithms and Intractable Problems
- Introduction to Artificial Intelligence
- Computer Security
- Designing Information Devices and Systems I and II

Work Experience

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.

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.

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.

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.

Gitlet

University of California, Berkeley — *June 2019 - May 2020*

- Built a miniature version of Git for a data structures class from scratch in Java.
- Features full-fledged version-control commands with efficient run times and space usage.

MNIST Digit Classifier

Personal — *June 2020 - June 2020*

- Created a neural network to classify handwritten digits.
- Trained on MNIST data and solves the MNIST problem with approximately 99% accuracy.

Cal Poly Pomona High School 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.