

Dayne Tran

dayne.tran@berkeley.edu | 714-331-2857 | Berkeley, CA

KEY SKILLS

Software Engineering • Data Science • Machine Learning • Jupyter Notebooks • API Layers • Web Scraping • Data Pipelines • Scripting • Database Management • Dataset Building • Statistics

TECHNICAL SKILLS

- **Languages:** *Advanced* – Python, Golang, SQL | *Proficient* – C, C#, Java, RISC-V, HTML, CSS
- **Technologies:** Pandas, NumPy, Scikit-Learn, Matplotlib, PostgreSQL

EDUCATION

University of California, Berkeley | **GPA 3.75** | **Graduated May 2023**

- Bachelors' in Computer Science
- Bachelors' in Economics

Relevant Coursework:

- Machine Learning, Database Systems, Data Structures and Algorithms, Advanced Probability and Statistics, Artificial Intelligence, Efficient Algorithms and Intractable Problems

TECHNICAL EXPERIENCES

Humanitas AI | **May 2022 – August 2022**

Software Engineering Intern – Data Pipelines, Web Crawling, Data Analysis

- Developed large-scale web scraping programs to facilitate recommender model development; extracted 300,000 data points for 1.9 million nonprofits; the web-crawling framework is open-sourced Python Scrapy, and the spiders communicate data with servers hosted on Google Cloud SQL for PostgreSQL.
- Implemented big data ingestion frameworks in Python that integrate +500,000 data points from partner nonprofits, government agencies, and public sites for immediate storage and application.

Geopogo | **May 2021 – August 2021**

Game and Software Engineering Intern – Game Development

- Worked multiplayer communication and location features in the consumer-facing system, written with C# through the Unity game engine.

LEADERSHIP EXPERIENCES

University of California, Berkeley | **January 2022 – Present**

Student Football Equipment Manager – Excellence Under Pressure, Teamwork & Communication

- Manages daily operations for equipment, practices, and games for the California football team, for approximately 200 players, coaches, and medical/strength/media staff.

Habitat for Humanity, Berkeley Chapter | **May 2022 – December 2022**

Research Chair – Leadership, Database Management, Data Analysis

- Leads a group of 20-30 Berkeley students in several projects to vitalize housing education; partners with Habitat for Humanity International to process, build pipelines and provide analysis of their raw data.

PROJECTS

Berkeley Database – Database Systems

- Designed and implemented a database in Java with support for B+ tree indices, efficient join algorithms, query optimization, multigranularity locking, concurrent transaction executions, and database recovery.

E-Crawl – Web Scraping and Data Pipelines

- Deployed an e-commerce Python application on an EC2 instance that crawls internet marketplaces and collects their product information; in sub-2 minutes, the scraper logs prices, reviews, descriptions, and ratings from the Amazon Top 100 Bestselling Items webpage; contributed to open-source and MIT-Licensed.