

ALAN YU

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EDUCATION

University of California, Los Angeles

Los Angeles, CA

Bachelor of Science in Computer Science – 3.766 GPA

June 2025

Leadership: Upsilon Pi Epsilon – Corporate Director, Tau Beta Pi – Webmaster

Awards: Levi James Jr. Scholarship, NSF REU Fellow, Siemens Foundation Scholarship

EXPERIENCE

Plaid

New York City, NY

Software Engineer

June 2025 – Present

- Productionized Retention Score, an institution-level model for identifying direct deposit churn risk; designed Balance and Route Hits features contributing 16.39% and 9.73% total feature gain respectively
- Engineered transaction-profile feature pipeline over ~800GB of training data, preventing EMR OOM failures and improving Remember Me fraud recall from 59.51% to 63.60% at a fixed 10% block rate
- Owned Go backend for Connection Risk Score MVP, exposing link-time trust levels to banks with online scoring, feature fetching, database writes, DLQ handling, integration tests, and Grafana monitoring

Software Engineering Intern

June 2024 – September 2024

- Developed decryption pipeline for over 200M rows to recover identities mapping after unlinking
- Created Spark/Airflow lookup pipeline over sensitive AWS lakehouse data, improving query speed by 7x

Tesla

Palo Alto, CA

Software Engineering Intern

September 2023 – December 2023

- Improved firmware testing with CAN-Ethernet flashing, reducing execution time by 30x
- Reduced excess logs by 98% using Rust update-on-change tooling, measured by average CSV size

Paramount

Los Angeles, CA

Software Engineering Intern

June 2023 – August 2023

- Architected ML-based video quality trade-off algorithm using frame complexity, improving runtime by over 20x
- Resolved critical bug in ad-stitching for all video output by developing frame stitching merging logic

General Atomics

San Diego, CA

Software Engineering Intern

June 2022 – August 2022

- Led development of a .NET video streamer over UDP that processed radar data, synthesized frames, stitched them via FFmpeg, and computed analytics
- Developed image decoder with full coverage using C# image library to process raw byte data to generate Bitmaps

Ozcan Research Lab at UCLA

Los Angeles, CA

Undergraduate Machine Learning and Optics Researcher

October 2021 – June 2025

- Co-authored ACS ML [paper](#); twice awarded NSF REU Fellowship; won Best Poster out of 30 researchers
- Developed ML model by ray tracing non-monochromatic light in deep diffractive neural net using PyTorch
- Enhanced neural network classification by 2.4% by integrating majority voting over different images of same particle

SKILLS

Programming Languages: Python, Go, SQL, Rust, C++, JavaScript

ML/Data: PyTorch, NumPy, Pandas, PySpark, Airflow, DBT, Tecton, SageMaker

Technical: AWS, EMR, Docker, Git, Linux, Grafana