

# Trung Duong

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## EDUCATION

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**University of California, Los Angeles (UCLA)** Los Angeles, CA  
*B.A., Computer Science and Linguistics, Minor in Statistics and Data Science — GPA: 3.76* June 2028

- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Computer Organization, Intro to C++ and Python, Probability and Statistics, Intro to Statistical Analysis with R, Discrete Structures

## EXPERIENCE

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**Software Engineer Intern** Jun. 2026 – Present  
*Serafis (Y Combinator S25)* San Francisco, CA

- Drove 0-to-1 development and launch of production React/TypeScript web app as 1 of 3 core contributors.
- Built 2 Firebase auth flows, protected routes, and app shell with Vite, Tailwind/Shadcn, and TanStack Query.
- Shipped 8+ product surfaces across Dashboard, Podcasts, Episodes, Companies, 4 AI Search tabs, and Ask AI.
- Rebuilt search with hit-count relevance reducing discovery 12%, raising selections 8%, and cutting feedback 15%
- Integrated 10+ REST workflows for content-tag search, watchlists, 3-tier billing, PostHog, and AI citations.

**Software Engineer Intern** Mar. 2026 – Jun. 2026  
*Creative Labs @ UCLA* Los Angeles, CA

- Built Python scraping pipeline for UCLA course, prerequisite, and requirement data across 100+ majors/minors.
- Mapped scraped catalog data into MongoDB schemas powering course dependencies and student-profile queries.
- Designed FastAPI endpoints serving cleaned prerequisite data across 5+ React workflows for search and profiles.
- Improved data quality with validation and deduplication logic across 1,000+ scraped UCLA course records.
- Debugged React/FastAPI integration across 5+ release flows using GitHub PRs and typed API contracts.

**Machine Learning Research Intern** Mar. 2026 – Jun. 2026  
*ACM AI @ UCLA* Los Angeles, CA

- Fine-tuned GPT-style chess transformers on 10,000+ Lichess positions with PyTorch/Hugging Face.
- Reduced transformer training time by 30% by integrating DeepSpeed distributed training into PyTorch pipelines.
- Built PyTorch evaluation pipelines benchmarking move prediction across 3+ models and 1,000+ test positions.
- Decoded board features across 10+ transformer layers by developing custom probing pipelines for interpretability.
- Analyzed 1,000+ model predictions with Hugging Face probes to study chess decision patterns and failure modes.

**Project Manager Intern** Sep. 2025 – Dec. 2025  
*NASA L'Space* Remote

- Delivered 2 NASA-reviewed Phase I reports by leading 10+ contributors across scope, milestones, and delivery.
- Led 3-team integration by translating MATLAB trajectory, propulsion, and payload analyses into requirements.
- Improved doc throughput 25% and cut compile time 30% by standardizing Git, LaTeX, and Python workflows.

## PROJECTS

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**Omega Sigma Tau Website** | *React, Vite, Node.js, Supabase/PostgreSQL, Express* Jun. 2026 – Present

- Built and deployed a full-stack alumni/recruitment platform serving 100+ alumni and 50+ prospective rushees.
- Implemented 3+ backend workflows for alumni networking, recruitment updates, and chapter communications.
- Designed 5+ responsive React pages for rush, leadership, events, chapter history, and alumni-facing resources.

**TreeReq** | *React, TypeScript, Vite, D3.js, FastAPI, MongoDB, Firebase Auth* Mar. 2026 – Jun. 2026

- Built and deployed interactive prereq-tree visualizer for 10+ UCLA students across 100+ UCLA majors/minors.
- Modeled course dependencies as interactive D3.js graphs with clickable nodes, descriptions, and prereq chains.
- Developed 5+ React/FastAPI flows for major search, profiles, requirement views, and grade-difficulty data.

**MicroInvest** | *Python, TensorFlow, scikit-learn, Pandas, Streamlit* Jul. 2025 – Sep. 2025

- Developed AI investment platform using TensorFlow and scikit-learn with neural network and ensemble models.
- Improved portfolio recommendation accuracy by 18% using 15+ financial indicators and 4 forecasting models.

## TECHNICAL SKILLS

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**Languages:** Java, JavaScript, TypeScript, Python, C/C++, SQL (Postgres), Bash, HTML/CSS, R  
**Frameworks/ Libraries:** React.js, Next.js, Node.js, Express, FastAPI, Pandas, NumPy, TensorFlow, Tailwind CSS  
**Developer Tools:** Git, Docker, Linux, Nginx, MySQL, Supabase, OCI Cloud, AWS, GitHub Actions, CI/CD Pipelines