

Thomas Liu

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EDUCATION

University of California, Los Angeles | *BS. in Math of Computation* | Los Angeles, CA September 2026 - June 2030

- **Relevant coursework:** Differential Equations, CS 31

Diablo Valley College | Pleasant Hill, CA | *Concurrent high-school enrollment* / GPA: 4.0/4.0 January 2024 - June 2026

- **Relevant coursework:** Linear Algebra, Multivariable Calculus, Discrete Math

Monte Vista High School | Danville, CA | GPA: 4.5/3.9 August 2022 - June 2026

- **Relevant coursework:** AP Computer Science A, AP Computer Science Principles, AP Calculus BC, AP Statistics
- **Honors:** National Merit Finalist Scholarship Recipient, AIME Qualifier, 3x hackathon winner

TECHNICAL SKILLS

Languages: Python (Pandas, NumPy, Matplotlib, Pytorch, Scikit-learn), TypeScript, JavaScript, Java, CSS

Tools and Frameworks: React.js, Next.js, TailwindCSS, Gt, Bitbucket

RELEVANT EXPERIENCE

Lawrence Berkeley National Laboratory | Berkeley, CA | *Data Science Intern* June 2025 - July 2025

- Built an internal tool that filtered hundreds of research papers to aligned to LBNL 2024–2034 strategic goals, cutting manual literature triage time for the team from a month-long process to a matter of minutes
- Curated dataset of academic papers and fine-tuned the Gemini 2.5 Pro model at no additional cost to the lab to power paper-relevance filtering pipeline
- Received positive feedback for cross-department adoption; utilized bitbucket version control system

PROJECTS

TouchBase Sept. 2026

- Built a full-stack app (Next.js, TypeScript, PostgreSQL, Supabase) that helps students find cold email professors
- Built a data pipeline that pulls researcher and publication data from the OpenAlex and web search and uses Claude to summarize each professor's research focus, for a database of 140 professors
- Built a recommendation engine that suggests similar professors by scoring overlap in research topics

Callsense | Milpitas Hacks May 2025

- Built a 911 operator interface (Next.js/TailwindCSS, Flask) that records, transcribes, and live-summarizes calls using Gemini API to reduce operator burnout and improve efficiency
- Third place overall for the entire hackathon of 150 competitors

Non-invasive Prediction of Glucose Levels using Wrist-Worn Wearables March 2025

- Collected data for and trained ML and DL models to non-invasively predict glucose levels using Fitbit devices
- Final Ensemble LSTM and GRU model predicted 98.8% of values within a clinically acceptable range
- Won a \$250 award and recognition from Bio-rad Laboratories

Leveraging Deep Learning to Predict Diabetes Based on Lifestyle Factors | AP Research August 2024

- Built ML and DL models (MLP, TabTransformer, etc.) to predict diabetes diagnosis based on lifestyle factors
- Improved accuracy, sensitivity, and specificity scores from existing machine learning methods by around 15%
- Presented findings to research symposium, school principal recognized as one of the best projects that year

LEADERSHIP EXPERIENCE

Stang Hacks | Dublin, CA Jan. 2026 - April 2026

Director of Outreach

- 450+ sign ups as Director of Outreach for one of the largest high school hackathons in the Bay Area
- Recruited and managed team of 20+ volunteers to coordinate day-of-operations
- Partnered with 13 corporate sponsors (Notion, Vercel, Elevenlabs, Cerebras, Omi, etc.) to give out more than \$4k worth in prizes in cash and credits