

DANIEL TICAU

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Education

University of California San Diego

Bachelor of Science in Computer Engineering

Sep. 2025 – May 2028 (expected)

La Jolla, California

Mission College, West Valley College

(Dual Enrollment)

June 2024 – Dec. 2024

Santa Clara, California

Relevant Coursework

- Programming in C
- Programming in Java
- Differential Equations
- Linear Algebra

Experience

Deep Learning Specialization

November 2023 – January 2024

Student on Coursera

- Specialization consisted of the following 5 courses: Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models
- Worked with NumPy and Keras in a Jupyter Notebook environment to implement foundational ML models transcribing voice message and detecting traffic obstacles
- Learned theory for ANNS, CNNs, GRUs, LSTMs, and transformers

FIRST Tech Challenge - Deja Vu Robotics #13216

September 2021 – January 2025

Hardware/Software/Driving

Santa Clara, CA

- Developed of aluminum mecanum wheel chassis with intake/outtake systems per each year's unique design challenge using Fusion360, Onshape, and Ender 3 3D printing softwares
- Worked with software team using Java on Android Studio as chassis driver to tune gamepad controls for consistent movement and refine autonomous control code.
- Awards: 2x Inspire, 1x Think, 1x Innovate, 1x Design

Projects

Arbiter - Prediction Market Arbitrage

November 2025 - Present

- Built a real-time arbitrage scanner that monitors Kalshi and Polymarket prediction markets, using async Python (aiohttp) to concurrently match markets and compare prices to find risk-free arbitrage
- Designed deterministic market-matching algorithms that programmatically discover equivalent markets across platforms using slug construction (sports) and pattern-based entity extraction (political)

Verifis - Low Latency Fact-Checking with AI

September 2025 - Present

- Full-stack Chrome Extension (MV3) to quickly find credible sources for highlighted text on screen.
- Built with React, TypeScript, and Vite for the frontend and Hono and Node.js for the backend API. Uses Google AI Studio API to integrate Google Gemini for claim extraction and source discovery.

Technical Skills

Languages: Python, Java, C

Developer Tools: VS Code, Cursor, Jupyter Notebook, Google Colab

Technologies/Frameworks: PyTorch, TensorFlow, Keras, NumPy, Linux, GitHub, Git

Leadership / Extracurricular

49ers STEM Leadership Institute

August 2019 – June 2025

Program Member

Santa Clara High School

- 1 of 60 in selective cohort of driven students focused on STEM, given accelerated math and science coursework as well as design and science fair project guidance.
- Learned how to use fabrication lab tools: ShopBot, Vinyl Cutter, and Laser Cutter (Inkscape).
- Hosted and judged in 1 FLL tournament and 2 mock tournaments to help middle school teams.

Silicon Valley Education Foundation (SVEF)

June 2025 – July 2025

Elevate Math Tutor

Los Arboles Literacy & Technology Academy

- Mentored and taught 3 incoming 5th grade classrooms advanced math to prepare them for the coming school year.
- Led classroom engineering projects (puff rockets and cardboard rovers) to provide exposure to STEM early on.
- Delivered college readiness lessons to help students prepare for their future.