

Nicole Fong

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AI student at UC San Diego (GPA 3.80) with hands-on experience in computer vision, machine learning, and full-stack development.
Seeking AI Research & ML Engineer internships for Summer 2026.

EDUCATION

University of California, San Diego

Graduation: June 2029

Bachelor of Science in Artificial Intelligence – Provost Honors (≥ 3.7 GPA)

GPA: 3.80

- **Relevant Coursework:** Intro to AI, Accelerated Java, Data Structures & Object Oriented Design, Linear Algebra, Multivariable Calculus, Discrete Math, Mathematics for Algorithms and Systems, Systems Programming & Software Tools

EXPERIENCE

AI/ML Fellow

Mar. 2026 - Present

Break Through Tech

Cornell Tech, NY

- Selected from a competitive national applicant pool for the 2026-2027 ML fellowship; building industry-ready skills through structured curriculum and mentorship with engineers at top-tier tech companies.

Operations Assistant

Jan. 2026 - Present

AI Stealth Company

San Francisco, CA

- Establish ground-truth baselines for model fine-tuning by applying RLHF methods to audit and evaluate model outputs for accuracy and alignment.

AI Events Board Director & AI Projects Mentor

Oct. 2025 - Present

Association for Computing Machinery (ACM)

San Diego, CA

- **AI Events Board Director (May 2026 - Present):** Direct technical AI event programming for the ACM community, coordinating speakers, logistics, and content across workshops and panels.
- **AI Projects Mentor (Jan. 2026 - Present):** Co-mentor a team of 4 mentees in developing a Spotify Recommender System, teaching conceptual foundations of embedding spaces and similarity metrics.
- **AI Events Board Diamond Staff (Oct. 2025 - May 2026):** Developed and presented technical workshops on deep learning (CNNs, Diffusion, CV) for the ACM community, translating complex AI research into digestible content.

Co-President & Tech Committee

Oct. 2025 - Present

Triton Engineering Student Council (TESC)

San Diego, CA

- **Co-President (May 2026 - Present):** Elected to lead 40+ engineering clubs and 8 committees, setting strategic priorities and overseeing cross-functional operations for one of UCSD's umbrella engineering student organization.
- **Tech Committee (Oct. 2025 - Present):** Automated engineering club data collection using a Python-based scraper, reducing manual entry by 90%; manage technical event logistics and digital check-ins for 100+ attendees.

PROJECTS

DiamondHacks: Straightline | *Gaussian Splatting, BrowserUse API, Supabase, Python*

Apr. 2026

- Won 1st place (Best Use of Browser Use) out of 400 participants; awarded an iPhone 17 Pro and a trip to SF.
- Built autonomous Browser Use agents to scrape and analyze ADA compliance data across web interfaces.
- Managed a Supabase backend cache feeding into a 3D immersive mobility accessibility platform via Gaussian Splatting.

Triton Robotics Autonomy Team Capstone | *ROS2, OpenCV, C++, Python*

Oct. 2025 - Mar. 2026

- Enhanced robot 3D object orientation accuracy by transitioning detection from bounding boxes to precise feature-based computer vision using sticker/sentry symbol recognition.
- Prototyped a Python/OpenCV node with contour detection; applied solvePnP with real-world object dimensions to achieve precise 6-DoF pose estimation.

ACM AI Projects: Fruit Recognition Model | *PyTorch, YOLO, Python*

Oct. 2025 - Jan. 2026

- Engineered a real-time fruit recognition system, leveraging a 24-layer GoogLeNet-inspired CNN and YOLO principles.
- Developed custom IoU and loss functions using the COCO 2017 dataset to improve model accuracy and confidence.

Women in Computing Project Teams: PetHub | *Next.js, Vercel, TypeScript*

Oct. 2025 - Dec. 2025

- Shipped a full-stack pet education platform end-to-end, from development to production on Vercel.
- Built interactive anatomical diagram features for cat and dog pages.

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, Swift/SwiftUI, HTML/CSS, LaTeX

AI & ML: PyTorch, Computer Vision (CNNs, YOLO, IOU, solvePnP), Machine Learning, Recommender Systems, RLHF

Frameworks & Libraries: React, Next.js, Supabase, OpenCV, ROS2, Tailwind CSS, Beautiful Soup, Browser Use API

Tools & Platforms: VSCode, Xcode, Figma, Ubuntu, Overleaf, Canva, UTM, WordPress