

Aiden Tabrizi

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EDUCATION

University of California, Berkeley

Berkeley, CA

Bachelor of Science in Electrical Engineering and Computer Sciences

June 2028

- Transfer GPA: 3.94 / 4.00
- Relevant Transfer Coursework: Data Structures, Algorithms, Discrete Mathematics, Computer Organization & Assembly, Linear Algebra, Multivariable Calculus, Electricity & Magnetism

EXPERIENCE

Software Engineering Intern

June 2026 - Present

UniShack - Part-time

Remote

- Shipped a university housing search app in **React Native** across **11** campuses, with live status updates via **Firestore**.
- Automated roommate assignment with **Gale-Shapley stable matching** over weighted lifestyle-preference profiles.

Electrical Engineering Intern

July 2026 - Present

ChipMango - Part-time

Remote

- Designed and simulated combinational and sequential logic in **Verilog**, verifying timing behavior in **Vivado**.
- Worked through the **RTL-to-GDSII** flow: floorplanning, static timing analysis, and routing for power and area.

Research Assistant

June 2023 - June 2026

University of California, San Diego - ACES Lab

San Diego, CA

- Co-filed U.S. patent (**US20260010823A1**) and co-authored paper on dynamic ML optimization.
- Built open-source **PyTorch** package for live hyperparameter tuning, saving **60s** and **5.4kJ** per change.
- Ran an **18**-person controlled **Docker** study: package users fit **33** more epochs in the same 1.5-hour session.

App Developer

August 2024 - May 2026

Persian Cultural Center

San Diego, CA

- Launched a **Swift** iOS event app using **SwiftData** and **REST** APIs, driving **300+** active users and a **40%** lift in sign-ups.
- Enabled in-app donation via **Apple** and **PayPal** APIs, raising over **\$3000** in extra donations in the first month.

Course Developer

June 2024 - May 2025

JuiceMind

Remote

- Authored the **AP CSP** curriculum in **JavaScript** for **1,000+** students: **30+** quizzes, **24** labs, **4** projects.
- Oversaw the **Python** and **Web Development** courses, reviewing starter code and assessments for accuracy.

Network Intern

January 2024 - May 2024

Leonardo DRS

San Diego, CA

- Cut peer-to-peer latency **30%** on **Linux** by profiling bottlenecks and rewriting connection handling in **Python**.
- Built a registration system for **50** concurrent users with indexed **MySQL** queries and server-side validation.

PROJECTS

AssistAI | *Next.js, Supabase, Python, PostgreSQL, Gemini, Vercel, OpenAI*

November 2025

- Won **1st Place Overall** at HackCC 2025 with a full-stack Next.js platform for AI course planning.
- Integrated **BeautifulSoup** scraping and **ChatGPT API** for intelligent transfer advising.

Bluehax | *Python, PostgreSQL, Discord.py*

August 2025 - March 2026

- Built Discord bot in **Python** for Nintendo 3DS console management supporting **3,500+** global users.
- Designed a **PostgreSQL** job queue that dispatches repair jobs to a worker server and relays live status to users.

LEADERSHIP & EXTRACURRICULARS

Co-Founder & Vice President

May 2025 - June 2026

MesaFSD Full Self-Driving Club

San Diego, CA

- Placed **top 5** nationally at the **Autonomous Karting Series**, the first team to complete a full autonomous lap.
- Oversaw Software and Business teams, securing **\$10,000** in sponsorship funding to build a competition self-driving go-kart.
- Led development of GPS navigation with **ArduRover** and computer vision pipelines with **OpenCV**.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Swift, C/C++, Java, SQL

Frameworks: React, React Native, Node.js, Express.js, SwiftUI, SwiftData

Developer Tools: Git, Docker, Linux, PostgreSQL, MySQL, Google Cloud Platform, Vercel, Firebase, Supabase, Railway, Xcode

AI/Data: OpenAI, Anthropic, Gemini, NumPy, Pandas, Scikit Learn, OpenCV, PyTorch, TensorFlow