

RYAN TORREZ

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WORK EXPERIENCE

SQA Squared — Junior SQaaS Trainee

Jul 2026 – Present

- Realize, identify, and execute test cases across business partners' software systems, personally handling 10+ tickets weekly on a team resolving 70+ weekly.
- Manage test cases and tickets via Jira and Azure DevOps; automate testing with Playwright and track coverage in QASE.
- Write Python scripts to streamline testing processes; participate in daily standups within an Agile framework.

First Step Marketing, Long Beach — Brand Ambassador

Nov 2022 – Jul 2023

- Engaged with 50+ customers daily to promote brand awareness and managed multi-site booth logistics, applying data-driven reporting to improve outreach strategies.

EDUCATION AND CERTIFICATIONS

- California State University of Los Angeles, Bachelor of Science, Computer Science — Los Angeles, CA (August 2025)

TECHNOLOGIES AND SKILLS

- Programming Languages: Python, Java, C#, C, C++, TypeScript, HTML, CSS
- Frameworks & Platforms: Next.js, FastAPI, Tailwind CSS, Supabase
- Systems & Tools: Unix/Linux, Git, AWS, .NET, Jira, Azure DevOps
- Databases: MySQL, PostgreSQL, NoSQL
- Networking & Protocols: TCP/IP, Bundle Protocol (BP), Delay Tolerant Networking (DTN), SMTP
- Software Engineering: Software Quality Assurance, Test Case Design & Execution, Test Automation (Playwright, QASE), Data Structures & Algorithms, Agile Development
- Spoken Languages: English, Spanish

PROJECTS

NASA Jet Propulsion Laboratory (JPL) — Senior Capstone Project

Aug 2024 – May 2025

- Researched and prototyped a Delay Tolerant Network (DTN) using the Bundle Protocol (BP) for reliable data transport in space telecommunications; built a distributed Raspberry Pi testbed simulating Earth-space networks.
- Led QA by developing an automated Python/Bash testing framework on Unix systems to validate data integrity, fault tolerance, and resilience; co-authored a peer-reviewed research paper on the findings.

The Nest — Founder & Solo Developer

2026

- Designing and building a Twitter-style social platform for Cal State LA students, alumni, and incoming students, gated by .calstatela.edu email verification.
- Architected the full stack solo: Next.js/TypeScript/Tailwind frontend, FastAPI backend, and PostgreSQL via Supabase, including a 9-table schema and 5-router-group REST API.
- Implemented secure auth with bcrypt and JWT in httpOnly cookies, plus rate limiting, ORM-based SQL injection prevention, and Pydantic input validation.

Dragon's Burden — Team Project

2024

- Collaborated with 2 CS students to build a multiplayer Unity/C# game using Git and agile practices; published a playable build on itch.io.

AWARDS

- Dean's List: 2023, 2024
- Computer Science Founder Award: CSHM, at the recommendation of the Computer Science Chair
- Employee of the Month: First Step Marketing