

Daniel Xu

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EDUCATION

University of California, San Diego

Bachelor of Science in Mathematics and Computer Science

GPA: 4.0/4.0

La Jolla, CA

Expected July 2028

EXPERIENCE

Polylabs Inc.

Software Engineer Intern

Nov. 2025 – Present

Palo Alto, CA

- Orchestrated application containerization with Docker and blue-green deployments on AWS EC2, reducing deployment time by 70% and preventing downtime during releases.
- Designed and implemented a LinkedIn ingestion pipeline using Bright Data + AI SDK to generate structured user personas, enabling personalized app experiences and improving context relevance
- Secured backend architecture by integrating Supabase Auth and Redis to rate-limit API endpoints, eliminating observed unauthorized requests

IEEE UCSD Student Branch

Webmaster

Jan. 2025 – Present

La Jolla, CA

- Architected an internal onboarding site and CMS with Convex and TanStack Start, streamlining operations for 60+ current and incoming board members
- Integrated Logto SSO across distributed internal applications, unifying member profile data and reducing administrative overhead by 30%

Symphonic Student Association at UCSD

Webmaster

Oct. 2025 – Present

La Jolla, CA

- Developed an SEO-optimized Next.js landing page coupled with automated mailing workflows, successfully onboarding 70+ new members and boosting event page traffic by 35%
- Programmed a dynamic membership dashboard with Next.js and Convex, slashing administrative workload by 50% and increasing event and resource engagement by 30%

PROJECTS

ScheduleSync

- Engineered and launched an academic planning application adopted by 100+ students, leveraging LLM-driven automation to reduce schedule creation time from 12 minutes to 2
- Enhanced data extraction capabilities by integrating LLM-based image analysis via the AI SDK and Gemini API, improving accuracy by 50% over legacy parsing methods
- Implemented seamless one-click Google Calendar synchronization utilizing GCP, accelerating schedule import speeds by 80%

RxLog

- Created a full-stack medication tracking platform utilizing TanStack Start and Convex, enabling real-time coordination of schedules, records, and dose logging for caregivers
- Designed a real-time collaborative care workflow via Convex Functions, empowering multiple caregivers to synchronously manage medication administration across a unified patient profile
- Optimized application performance by analyzing beta usage patterns and implementing intent-based data prefetching, slashing load times by 90%

TECHNICAL SKILLS

Languages: Java, Python, C++, SQL, TypeScript

Frameworks & Libraries: React, Next.js, TanStack Start, Node.js

Developer Tools: Git, Docker, Linux, AWS, Google Cloud Platform, PostgreSQL, Convex