

# Daniel Xu

+1 (669) 262-8622 | [danielxu0307@gmail.com](mailto:danielxu0307@gmail.com) | [linkedin.com/in/daniel-xu-sd](https://www.linkedin.com/in/daniel-xu-sd) | [github.com/x0ba](https://github.com/x0ba) | [danielx.me/](https://danielx.me/)

## EDUCATION

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### 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

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### Polylabs Inc.

*Software Engineer Intern*

Palo Alto, CA

*Nov. 2025 – Present*

- Orchestrated application containerization with Docker and blue-green deployments on AWS EC2, reducing deployment time by 70% and preventing downtime during releases.
- Designed a LinkedIn profile ingestion pipeline for personalized content by extracting profile data with Bright Data and generating structured personas with AI SDK, improving profile-context coverage by 30% across 100+ test users.
- Integrated Supabase Auth and Redis-backed rate limiting across API endpoints, blocking unauthorized request patterns observed in production logs and reducing abusive traffic by 80%.

### IEEE UCSD Student Branch

*Webmaster*

La Jolla, CA

*Jan. 2025 – Present*

- Built an internal onboarding CMS for IEEE UCSD officers by designing role-based resource flows with Convex and TanStack Start, centralizing 30+ documents and reducing new-officer onboarding time by 30%.
- Integrated Logto SSO across distributed internal applications, unifying member profile data and reducing administrative overhead by 30%.

### Symphonic Student Association at UCSD

*Webmaster*

La Jolla, CA

*Oct. 2025 – Present*

- 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

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### 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.
- Built an AI-powered transcript and schedule parsing pipeline with the AI SDK and Gemini API, improving extraction accuracy by 50% over legacy rule-based parsing..
- Integrated one-click Google Calendar synchronization through Google Cloud APIs, reducing manual schedule import time by 80% and improving student workflow efficiency.

### RxLog

- Built a full-stack medication tracking platform for caregiver coordination, using TanStack Start and Convex to model shared patient records, real-time dose logs, and synchronized medication schedules across multiple caregiver accounts.
- Designed collaborative care workflows with Convex Functions, enabling multiple caregivers to update medication records across a unified patient profile with real-time state synchronization.
- Optimized perceived performance by analyzing beta usage patterns and implementing intent-based data prefetching, reducing route load times by 90%.

## TECHNICAL SKILLS

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

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

**Developer Tools:** Git, Docker, Linux, Codex

**Cloud & Infrastructure:** AWS EC2, Google Cloud Platform, PostgreSQL, Redis, Supabase, Convex

**Concepts:** Data Structures, Algorithms, Object-Oriented Programming, REST APIs, Authentication, CI/CD, Relational Databases, Agentic Engineering, Prompt Engineering