

# Daniel Xu

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## EDUCATION

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### University of California, San Diego

*Bachelor of Science in Mathematics and Computer Science*

La Jolla, CA

*Expected June 2028*

- **GPA:** 3.97/4.00
- **Relevant Coursework:** Data Structures & Algorithms, Systems Programming, Data Science

## EXPERIENCE

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### Polylabs, Inc.

*Software Engineer Intern*

Nov. 2025 – June 2026

*Palo Alto, CA*

- Eliminated manual releases by containerizing a Node.js and React application with Docker and building a GitHub Actions pipeline that automatically tested and deployed changes to AWS EC2.
- Modernized a Vite and Flask application by migrating it to TanStack Start and Convex, implementing optimistic updates and query caching to deliver immediate interface feedback and reduce redundant database requests.
- Prevented blocking requests by engineering an asynchronous pipeline that collected LinkedIn data through Bright Data and generated structured AI context for 50+ beta profiles.

### IEEE Student Branch at UC San Diego

*Webmaster*

La Jolla, CA

*Jan. 2026 – Present*

- Addressed fragmented resume-sharing workflows for an 800-member organization by building a React and Node.js platform backed by PostgreSQL and AWS S3 for sponsors including Qualcomm, RTX, and TSMC.
- Increased average event attendance by 32% by building a rewards marketplace with transactional checkout, an append-only points ledger, and reliable state-based fulfillment.
- Streamlined officer onboarding by building a React documentation platform with Logto SSO and role-based access, enabling 30+ board members to seamlessly write and share documentation briefing 20+ incoming officers.

## PROJECTS

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### Schedulesync | *TypeScript, Next.js, tRPC*

- Reduced course-calendar setup from 12 minutes to under 2 by building and launching an application that converts schedule screenshots into .ics files or Google Calendar events for 100+ students.
- Expanded schedule compatibility beyond institution-specific formats by replacing a rule-based parser with a Gemini-powered extraction pipeline capable of processing schedules from multiple universities.

### Peek | *TypeScript, Svelte, Convex*

- Built a full-stack analytics platform that imports coding-agent sessions from Claude Code, Cursor, Codex, and Pi through extensible adapters, normalizing heterogeneous traces into a unified schema.
- Implemented a transcript-sanitization pipeline that detects and removes secrets and personally identifiable information before storage, with unit tests enforced through continuous integration.

### NoScam | *React, Spring Boot, PostgreSQL, Spring Security, OpenAPI*

- Designed a REST API in Spring Boot for accounts and ledger-style transactions, using public UUIDs and ownership checks to prevent cross-account access.
- Implemented session-based authentication with Spring Security and integration tests covering registration, authorization, and transaction access.

## TECHNICAL SKILLS

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

**Frameworks:** Spring Boot, React, Next.js, Node.js, tRPC, JUnit, Vitest

**Cloud & Tools:** AWS EC2/S3, Docker, GitHub Actions, PostgreSQL, Git, OpenAPI, Convex