

Daniel Xu

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EDUCATION

University of California, San Diego

Bachelor of Science in Mathematics and Computer Science

La Jolla, CA

Expected June 2028

- **GPA:** 3.97/4.00

EXPERIENCE

Polylabs, Inc.

Software Engineer Intern

Nov. 2025 – June 2026

Palo Alto, CA

- Cut production deployment time from ~30 minutes to under 5 by containerizing a React/Node.js application with Docker and building an automated GitHub Actions pipeline to test and deploy releases to AWS EC2.
- Reduced profile-generation API costs by 76% by replacing unrestricted manual refreshes with scheduled quarterly updates and a credit-based regeneration system backed by PostgreSQL.
- Cut the time to generate three alternative LinkedIn post drafts from ~40s to ~12s by running AI generation requests concurrently instead of sequentially.

IEEE Student Branch at UC San Diego

Full-Stack Software Engineer

Jan. 2026 – Present

La Jolla, CA

- Developed a resume-sharing platform serving 800+ IEEE members and 5+ corporate sponsors, centralizing student submissions and sponsor access with React, Node.js, PostgreSQL, and S3.
- Increased event attendance by 16% and check-in rates by 47% by launching a points-based rewards marketplace and using feature flags to beta-test the system with board members before rollout.
- Created an internal documentation platform used by 30+ board members to onboard 20+ incoming officers, with SAML SSO and role-based permissions for secure document access and editing.

PROJECTS

Schedulesync | *Next.js, TypeScript, PostgreSQL, Tailwind CSS, Vercel AI SDK, GCP*

- Launched a schedule-conversion tool used by 100+ students, turning uploaded course schedules into Google Calendar events in under one minute.
- Replaced institution-specific parsing rules with an LLM-based extraction pipeline that handles varying course-schedule formats without maintaining separate parsers for each school.

Bud | *React, TypeScript, Plaid, Convex*

- Developed a personal-finance dashboard that synchronizes Plaid account data and gives users a unified view of income, spending, and categorized transactions.
- Engineered an idempotent Plaid ingestion pipeline using cursor-based incremental sync, webhooks, and nightly reconciliation to recover missed updates without creating duplicate transactions or overwriting user edits.
- Created a rule-learning transaction categorizer that converts users' manual corrections into prioritized rules for automatically categorizing future transactions.

Tritonwatch | *Java, Spring Boot, Kafka, PostgreSQL, Docker, AWS, Terraform*

- Developed a course-availability monitoring platform that continuously tracks UCSD class sections and sends students email/SMS alerts within 2 minutes of seat availability.
- Designed four event-driven Spring Boot services communicating through Kafka and implemented transactional outbox processing to keep persisted watchlist state consistent with asynchronous events.
- Automated deployment of containerized services to AWS ECS using Terraform and GitHub Actions, with OIDC authentication, versioned ECR images, and health-checked releases.

TECHNICAL SKILLS

Languages: TypeScript/JavaScript, Java, Python, SQL

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

Infrastructure & Data: AWS, PostgreSQL, Docker, Kafka, Terraform, GitHub Actions, Convex

Tools: Git/GitHub, Linux, OpenAPI