Jaden Santa Huang

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Education

University of California, San Diego San Diego, CA

Department of Computer Science & Engineering, B.S. in Artificial Intelligence | GPA: 3.9/4.0 *Expected June 2028*

- Coursework: Data Structures, Algorithms, Computer Organization, Machine Learning, Linear Algebra, Discrete Math

Skills

Languages: Python, C/C++, Java, JavaScript, TypeScript, SQL, HTML/CSS
Frameworks & Libraries: React, Next.js, Node.js, Express.js, Tailwind
Developer Tools: Git, Postman, Figma, TestFlight, VS Code, Codex, Firebase, MongoDB

Experience

Product Manager September 2026 – Present

Triton Software Engineering *UC San Diego*

- Led **user research** and feasibility sessions with Home-Start's Volunteer Coordinator, turning 7 spreadsheets into a status-driven portal spec and user stories/acceptance criteria for a 10-person engineering/design team.
- Cut projected **MVP delivery by 2–3 weeks** by extending the existing React/Express/MongoDB codebase instead of rebuilding and deferring shift-matrix visualizations and calendar integration to V2.
- Eliminated database rewrite risk for **9,000+ volunteer contacts** and 20+ years of records by locking the events, assignments, and historical wage-rate data model with the Engineering Manager before development.
- Prevented unreviewed code from reaching the client's live environment by identifying that the main branch auto-deployed to production and establishing a separate release branch.
- Own **project management** for a 13-person team, running weekly progress reviews with engineering and design leads and tracking milestones against the delivery timeline to surface blockers early.

Full-Stack Software Developer November 2025 – September 2026

Triton Software Engineering *UC San Diego*

- Shipped public-facing website for F3 Global on a 12-person team using **React, Express, and MongoDB**, delivering 11 features across 6 months.
- Engineered an **authenticated Express/Mongoose FAQ service** with validated **CRUD** endpoints and role-protected admin routes, enabling non-engineering staff to publish content without developer involvement.
- Built **4+ reusable React components** (event carousels, contact forms) and an OAuth-gated admin dashboard, standardizing UI patterns across 6 pages.
- Migrated 24 images to WebP format, **reducing image storage by 80%** and improving page-load performance.

Assessment Creator & QA Engineering Intern June 2023 – June 2026

Lirvana Labs *Menlo Park, CA*

- Designed **80+ JSON-based assessment blueprints** with subject-specific constraints and queried SQL databases through internal tools, supporting grades 4–5 English and Math across deployments reaching 15,000+ families.
- Triaged and documented 1**0+ iOS defects through TestFlight** with reproducible steps and device context, partnering with developers to validate fixes for an app serving 20,000+ users.
- Produced 20+ Social Emotional Learning videos in iMovie with **Stanford Deliberative Democracy Lab**, deployed at schools in Thailand, Hong Kong, Virginia, and New York.

Projects

Inventory — AI-Powered Personal Inventory Manager | *TypeScript, React, Next.js, Supabase, PostgreSQL, LangChain, LangGraph* Sep - Present

- Architected a **full-stack inventory application** with searchable records, stock tracking, item photos, and nested storage locations.
- Orchestrated pluggable **LLM backends** (Gemini, Claude, OpenAI-compatible) via **LangChain/LangGraph** to power natural-language search, personalized packing lists, and validated item updates.

- Hardened AI responses with **structured output validation**, verified record citations, bounded tool execution, and fallback search.
- Secured user data with Supabase authentication, **PostgreSQL row-level security**, and private photo storage with expiring signed URLs.
- Developed automated tests using **Vitest, React Testing Library, and PGlite** to verify authentication, database access policies, concurrent updates, and AI response validation.