

Andy Su

Los Angeles, CA | 626-542-5808 | contact@andysu.tech
linkedin.com/in/andysu96 | github.com/ansidian | andysu.tech

EDUCATION

California State University, Los Angeles

May 2026

B.S. in Computer Science, Cum Laude | GPA: 3.7/4.0

SELECTED PROJECTS

Setpoint – Unified Mail, Calendar, and News Workspace

Mar 2026 – Present

TypeScript, React, Node.js, SQLite, Zod, Anthropic API, Vitest, Playwright, Docker

Overview: andysu.tech/work/setpoint

- Kept five email accounts, Google Calendar, and Todoist in sync as changes happen with one adapter-based sync engine, pairing push (Gmail Pub/Sub, Calendar watch channels, Todoist webhooks) with polling and a reconciliation sweep to catch anything missed.
- Reduced the inbox to a short priority queue with a tiered classifier: deterministic rules first, then Claude Haiku, escalating to Sonnet only when Haiku is unsure or marks an email as needing attention.
- Made syncs, provider writes, and AI sorting survive crashes and outages by running them as leased jobs in a SQLite-backed queue, retrying transient failures with backoff and failing permanent ones immediately.
- Made every edit feel instant without hiding failures: optimistic updates stay pending until the provider confirms, and a rejected change surfaces the provider's error.

LunarSight – Lunar Surface Feature Detection (Capstone with NASA JPL)

Aug 2025 – May 2026

Python, YOLO11, Detectron2, pytest

Overview: andysu.tech/work/lunarsight

- Led a 12-person student team as primary engineer, owning architecture and test strategy and presenting progress in biweekly reviews with the JPL liaison.
- Trained and evaluated YOLO11 and Faster R-CNN to detect craters, pits, and rocks in Lunar Reconnaissance Orbiter imagery; YOLO reached 60.4% mAP@50, while Faster R-CNN led on rare pits.
- Guided dataset fixes with UMAP analysis of 16,000+ detection embeddings, exposing class imbalance and ambiguous labels.
- Replaced manual archive downloads with an automated imagery pipeline supporting concurrent downloads, mirror fallback, and rollback, tested down to failure cleanup.

Darma – Self-Hosted Issue Tracker for AI Coding Agents

Oct 2026 – Present

TypeScript, React, SQLite, MCP, Zod, Vitest, Docker

Overview: andysu.tech/work/darma

- Unified work tracking for 5 projects, replacing repo-specific Markdown logs that made cross-project work hard to follow.
- Enabled AI agents from any provider to create and update issues directly by building an MCP server with per-agent tokens that attribute every change.
- Applied the same workflow rules to agents and the web app on the server, refusing changes such as starting blocked work or closing an issue without a closing note.
- Shipped into daily use within a week by keeping scope tight to my workflow; built agent-first and tracked in darma itself.

WORK EXPERIENCE

FedEx Ground – Package Handler / Facer

Nov 2023 – Present

Industry, CA

- Monitor two automated sorters in a facility processing 25,000+ packages daily, reporting bottlenecks and equipment faults to central control, floor managers, and maintenance.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, HTML/CSS

Web & data: React, Node.js, Express, REST APIs, SQLite/libSQL, OAuth

AI & ML: OpenAI API, Anthropic API, MCP, tool calling, YOLO, Detectron2

Testing & tools: Vitest, Playwright, pytest, Git, GitHub Actions, Docker, Linux