

Daniel Kuo

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EDUCATION

Rice University

Houston, TX

Bachelor of Science in Computer Science, GPA: 3.73

Aug. 2023 – May 2027

- Relevant Coursework: Data Structures & Algorithms, Program Design, Computer Systems, Compilers, Computer Networks

EXPERIENCE

Labshare

Houston, TX

Co-founder & COO — Full-Stack Engineer / PM

Jan. 2025 – Present

- Created the product roadmap from interviews with 15+ lab managers to pilot launch with **3 labs**; ran sprint planning, task breakdowns, and daily team updates.
- Designed the data model and tagging taxonomy for the inventory domain; built **Go** REST endpoints (CRUD, batch ops, filters) and implemented **MongoDB Atlas Search** with compound indexes and relevance scoring to enable fast, typo-tolerant lookup by name, lot, location, and tags.
- Developed the **React Native** inventory UI in **TypeScript** (**Zustand**, **TanStack Query**); shipped search UX with debounced queries, optimistic updates, and paginated results.

PROS

Houston, TX

Software Engineering Intern, Group Sales Optimizer (GSO) Team

May 2025 - August 2025

- Designed and implemented a historical quote retrieval and replay feature for the **Group Sales Optimizer (GSO)** platform, building a **Java** backend with **Hibernate** and **Oracle** to surface previously internal-only data directly to clients, reducing a multi-hour log investigation process to a three-click workflow and improving efficiency for both clients and internal teams.
- Led team to first place in the PROS Ideathon by conceptualizing and pitching a **Jira Assistant** leveraging **Azure OpenAI** for intelligent action plan and comment generation, **vector databases** for semantic search of similar tickets, and **Jira API** integration to automate support workflows and reduce Mean Time to Resolution (MTTR).
- Worked in an **Agile** environment, collaborating with senior mentors to deliver production-ready features and gaining hands-on experience with **Azure** services and DevOps practices in support of **CPQ (Configure, Price, Quote)** enterprise applications.

Codistas IT Services

Houston, TX

Technical Operations Intern

May 2024 - August 2024

- Developed ISO-compliant technical documentation for **Azure hosting services**, collaborating with consulting firms to streamline workflows and reduce non-compliance incidents by 30%.
- Leveraged Microsoft Excel and Azure Analytics to analyze operational data, cutting client response times by 25% and delivering market insights that supported the acquisition of 3 of 7 new clients.

NASA SUITS Challenge

Houston, TX

Software Development Lead

September 2023 - February 2024

- Acted as the primary technical liaison for a **5-person team**, shielding developers from ambiguity and scope creep by defining clear engineering tasks, resulting in project delivery **2 weeks ahead of schedule**.
- Developed a modular **AR heads-up display (HUD)** in **Unity** and **C#** to parse and render mission-critical telemetry, achieving sub-second data visualization latency for real-time astronaut feedback.
- Designed and implemented **AR-based navigation** and geological survey tools that, in simulated Extravehicular Activity (EVA) scenarios, reduced task completion time and error rates by **40%**.

PROJECTS

Feynman Junior | Node.js, React, TypeScript, LangChain, Ollama, WebSpeechAPI

September 2024

- Engineered an AI presentation coach in **React/TS** and **Node.js** to help students and professionals rehearse for high-stakes talks by simulating audience personas like 'Skeptical Executive' or 'Curious Novice'.
- Architected a real-time feedback pipeline using the **WebSpeechAPI** for transcription and **LangChain** to orchestrate prompts to a local **Ollama LLM**, measurably reducing user filler words (e.g., 'um', 'like') over 3 trials.

Private Cloud & Application Hosting | Unraid OS, Docker, NGINX, Dart, Linux, Cloudflare

September 2023

- Engineered a stateless, highly-available Discord scheduling bot in **Python** that processes concurrent requests asynchronously; its automatic time-zone conversion and interactive UI eliminate manual coordination for an international user base.
- Architected and maintain a personal cloud on **Unraid OS** with **99.9% uptime**, deploying a suite of **10+ containerized services** via **Docker**. Secured all endpoints with **NGINX** as a reverse proxy, while automating backups with cron scripts.

TECHNICAL SKILLS

Languages: Java, Python, Go, JavaScript/TypeScript, C/C++, C#

Frameworks & Libraries: React/React Native, Node.js, Next.js, LangChain, Unity, TanStack Query

Cloud & Developer Tools: AWS, Microsoft Azure, Docker, Git, NGINX, Postman, Cloudflare, Linux

Databases: PostgreSQL, MongoDB