

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, Object-Oriented Program Design, Computer Systems, Data Science, Programming Languages & Compilers, Probability & Statistics

EXPERIENCE

PROS

Houston, TX

Software Engineering Intern, Group Sales Optimizer (GSO) Team

May 2024 - Present

- Architected and developed a historical data visualization feature for the **Group Sales Optimizer (GSO)** platform, engineering a robust **Java** and **postgresql** backend to process and aggregate historical pricing data, enabling critical analysis for a tool managing **hundreds of millions of dollars** in annual group sales.
- Led team to first place in the PROS Ideathon, 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).
- Operated within an **Agile** framework, collaborating with senior mentors to deploy features on **Azure Data Platform** and enhance PROS's AI-powered **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

Labshare (Co-founder & COO) | *React Native, Go, MongoDB, AWS, Zustand, TanStack Query* January 2023 - Present

- Built the operational framework for alpha testing, translating user research from **15+ lab managers** into onboarding procedures and support protocols that were critical to launching with **3 pilot labs** in the Texas Medical Center.
- Led the full-stack development of the core inventory system, engineering the **React Native** client (**Zustand, TanStack Query**), the RESTful **Go** backend, and an **AWS S3-based OCR pipeline** for one-tap label scanning.
- Led product development for a team of **3 engineers**, implementing **Agile sprints** and quarterly **OKRs** to translate business goals into a concrete technical roadmap, enabling the launch of our MVP in just **4 months**.

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