

# Daniel Kuo

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## EDUCATION

### Rice University

Houston, TX

*Bachelor of Science in Computer Science GPA: 3.67*

*Aug. 2023 – May 2027*

**Courses:** Data Structures, Algorithms, Object-Oriented Program Design, Computer Systems, Data Science, Programming Languages & Compilers, Probability & Statistics

## EXPERIENCE

### Codistas IT Services

Houston, TX

*Technical Operations Intern*

*May - 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%.
- Utilized **Power BI** and **Azure Analytics** to perform data-driven market research and optimize operational workflows, enhancing client service response times by 25% and contributing to the acquisition of four new clients.

### NASA's Spacesuit User Interface Technologies for Students (SUITS)

Houston, TX

*Software Developer*

*September 2023 - February 2024*

- Led a team of **5 developers** in an **Agile environment**, coordinating with **NASA engineers and researchers**, achieving a **50% reduction in turnaround time** and delivering key milestones **2 weeks ahead of schedule**.
- Developed advanced graphical user interfaces (GUIs) and **augmented reality (AR) overlays** in **Unity** and **C#** for next-generation spacesuit HUDs, integrating NASA-provided telemetry data for enhanced mission efficiency.
- Collaborated with **NASA mentors** and **UI/UX specialists** to refine **AR-based navigation** and **mission planning tools** for lunar and Martian surface operations, improving **data visualization** and **real-time decision-making** by 40%.

### Code Ninjas

Houston, TX

*Coding Instructor*

*May 2022 - August 2022*

- Taught Lua scripting with a focus on object-oriented programming and game physics to groups of 6 to 20 students.
- Developed lessons integrating **algorithm optimization**, **AI scripting**, and **computational thinking**.

## PROJECTS

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

September 2024

- Developed an AI-powered tool using **Node.js**, **React**, and **TypeScript**, enabling users to practice presentations by simulating different audience profiles, reducing presentation anxiety and boosting engagement.
- Leveraged **LangChain**, **WebSpeechAPI**, and **Ollama** to dynamically adjust the feedback based on audience types, achieving **97% voice recognition accuracy** and a **100% user satisfaction rate** in beta testing.

### BusiChat | *Next.js, Node.js, Convex*

August 2024

- Built a full-stack, real-time chat application with workspace management, leveraging **Next.js** and **Node.js** to ensure seamless communication and scalability for businesses.
- Implemented secure **authentication** and **authorization mechanisms** (user registration, password recovery, OAuth) using **Next.js** and **Node.js**, ensuring user data security and privacy.

### MeetMe Scheduler & Unraid Cloud Server | *Dart, Unraid OS, Docker, NGINX, Linux*

September 2023

- Engineered a scalable **Discord scheduling bot** using **Dart** and the **Discord API**, implementing asynchronous processing, efficient data parsing algorithms, and real-time event scheduling, reducing cross-time-zone scheduling conflicts by **60%** and enhancing user experience.
- Deployed the bot within a **Docker container** on an **Unraid server**, automating build jobs and dependency management with **cron jobs**, ensuring **99.9% availability** and eliminating deployment overhead.
- Configured and maintained an **NGINX reverse proxy** to securely route requests to multiple self-hosted **Docker services** (Nextcloud, Immich, Discord bot) with **SSL termination via Cloudflare**.

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, JavaScript, TypeScript, C#, Lua, Dart, C

**Frameworks & Libraries:** React, Next.js, Node.js, Unity, LangChain, Convex

**Cloud Platforms:** Microsoft Azure, Oracle Cloud

**Developer Tools:** Git, Docker, Linux, NGINX, Unraid, Cloudflare, Power BI, LaTeX

**Databases:** SQL, MongoDB

**Other Technologies:** Agile, RESTful APIs, CI/CD, OAuth, WebSpeechAPI, Ollama