

Jhoon Yi

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Education

B.S Information Technology, *University of South Florida*, GPA: 3.79 / 4.00

Expected Grad: May 2026

- Relevant Coursework: Data Structures & Algorithms, Sys Integration & Architecture, Advanced Program Design, Leadership Fundamentals, Object-Oriented Programming, Databases

Technical Skills

- **Languages:** Python, JavaScript, HTML/CSS, C, SQL, Rust
- **Frameworks:** Next.js, React, Node.js, Express.js, SQLite, MySQL
- **Libraries:** Material UI, jQuery, Bootstrap, Pandas, Taipy
- **Tools:** Git, Github, VSCode, Postman, Vercel, Firebase, Generative AI, Microsoft Office, PyCharm

Experience

Tech Chair - *Google Developer Student Club*

December 2024 - Present

- Launched the inaugural shadow program and **led cross-functional teams** to create projects and workshops.
- Organized the club's **first hackathon** by developing the website, including a **custom application page** integrated with Firebase to store applicant data along with an **admin dashboard** for application management.
- Supervised tech leads in planning engaging events that **increased attendance** and supported student development.

Software Engineer Fellow - *Headstarter*

July 2024 - September 2024

- Built and deployed 5 AI projects in 5 weeks using React JS, Next.js, Firebase, Clerk, and Vercel, following **agile** methodologies with weekly sprints and incorporated **CI/CD** practices for iterative deployment.
- Collaborated with 3 Fellows to build and deploy a SaaS product that generates dynamic flashcards based on any topic using the Llama 3.1 LLM via the OpenRouter API, integrated a paywall and pricing plans using the Stripe API.

Projects

Therable, 3rd Place HackTX | *Next.js, React, OpenAI, InterSystems IRIS, CSS, Clerk*

November 2024

- Integrated **InterSystems' IRIS Database** as a SQL and vector database to store data and perform **vector searches**.
- Built a **custom sentiment analysis** using vector embeddings to classify user entries as positive, neutral, or negative.
- Utilized **GPT-3.5 Turbo LLM** to generate JSON reports with potential conditions, helpful resources, and exercises.

EcoSense, 1st Place Knight Hacks | *Next.js, React, OpenAI, Pinecone, CSS, Firebase*

October 2024

- Built a **utilitarian app** to help homeowners monitor, understand, and analyze their energy consumption.
- Created an **intuitive dashboard** that enables users to track and analyze energy usage in relation to expenses.
- Leveraged **RAG** to predict patterns and automate tasks, helping users optimize electricity use and reduce costs.

Rate My Professor RAG Chatbot | *Next.js, React, Material UI, OpenAI API, Pinecone, Cheerio*

August 2024

- Built a **web scraper** that extracts data from a Rate My Professor link and upserts it to a **Pinecone** index.
- Integrated with a **RAG** pipeline using **LangChain** and **OpenAI GPT-4o** to relevant answers to user queries.
- Crafted using Next.js, React, and MUI to create an engaging and interactive chat interface.

Cardlet | *Next.js, React, Material UI, Firebase, OpenRouterAPI, Clerk, Stripe, Vercel*

August 2024

- Integrated **Clerk** for seamless user auth and **Stripe** for secure payment processing within our **SaaS** platform.
- Utilized **Meta's LLaMA 3.1** LLM to process user text input and file uploads, creating customized flashcards.
- Created an interactive dashboard using **React** and **Next.js**, providing a dynamic and user-friendly interface.