MICHELLE CHUNG
SOFTWARE ENGINEER

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SKILLS

Languages: JavaScript, TypeScript, Python, Ruby, HTML, CSS, SQL | **Tools**: MongoDB, Supabase, Git, AWS S3, Postman, PostgreSQL | **Frameworks/Libraries**: React/Redux, Rails, Node.js, Next.js, Express.js, Tailwind, Three.js, Langchain, Streamlit, HuggingFace, OpenAI

PROJECTS

Chat PDF | *(Python, Langchain, Streamlit, HuggingFace, OpenAI)*   **live** | **github**
A chatbot that answers questions based on a user-uploaded pdf document
- Built a conversational retrieval system to answer user queries with the **Retrieval-Augmented Generation (RAG)** technique, improving the accuracy and contextual awareness of the responses.
- Utilized prompt chaining to separate relevant quote retrieval and question answering, increasing the controllability of output.

Grub Globe | *(JavaScript, Express.js, Node.js, MongoDB, React/Redux, AWS S3, CSS, Heroku, Jira)*   **live** | **github**
A global social recipe explorer with AI chat bot and gamified recipe completion
- Designed schema models and structured **Spoonacular API** data into **MongoDB**, enhancing query capabilities.
- Engineered a recipe and review photo upload system with metadata using **AWS S3**, improving filtering and retrieval efficiency.
- Collaborated with a team of engineers using **Jira** for backlog tracking, improving operational efficiency.
- Developed user-centric, gamified recipe completion features based on recipe filters, boosting user engagement.

Event Me | *(Ruby, Ruby on Rails, React/Redux, PostgreSQL, Webpack, Render, AWS S3)*   **live** | **github**
A full-stack Eventbrite clone enabling event organization and ticket management
- Formulated a scalable with the **Model-View-Controller** pattern for event and ticket management, enhancing reusability and maintainability across the full-stack.
- Architected asynchronous data processing for event and ticket data using React/Redux, optimizing loading speed.
- Implemented OAuth for secure user authentication, improving data security and reducing error handling time.

EXPERIENCE

Software Engineering Intern | *(JavaScript, TypeScript, Next.js, Tailwind CSS, Supabase, Postman)*
Stealth Startup - Dorsal AI   Sept 2023 - Dec 2023
- Developed a **REST API** to retrieve 10-K/10-Q reports from Sec.gov and transcripts in parallel, reducing latency in loading performance by 20%.
- Designed an interactive dashboard in **Next.js** with infinite pagination, increasing rendering performance by 35%.
- Created utility functions for financial data processing and display, enhancing code modularity and maintainability.
- Leveraged **Supabase** to store static assets in CDN, increasing scalability and reliability alongside another engineer.
- Implemented **TypeScript** for user dashboard features, increasing readability and reducing error handling time.

Relationship Banker
Bank of America   Jul 2022 - Nov 2022
- Fostered strategic partnerships by connecting clients with specialized bankers, achieving a 20% improvement in client retention rates through personalized service delivery.
- Led the initiative to integrate AI-based banking tools like Erica and Life Plan into client services, increasing tool adoption and enhancing the bank's digital transformation efforts.

EDUCATION

University of Illinois Urbana Champaign - *B.A. Consumer Economics and Finance, 2021*
App Academy - *Web Development Bootcamp, Jan 2023 - May 2023*