MICHELLE CHUNG

Full-Stack & Mobile Engineer | React Native | FastAPI | AI Products
San Francisco, CA | mchung099@gmail.com | 415-861-9342 | LinkedIn   Github   Portfolio

SKILLS

Python, TypeScript, JavaScript, SQL | React, React Native, Next.js, Expo, Tailwind
FastAPI, PostgreSQL, Supabase, SQLModel, Alembic | Playwright, Pytest, Selenium, Jest, Redis, Docker, AWS S3
Git, Fly.io, Postman, Figma, Jira

EXPERIENCE

Founder & Software Engineer - Skin Story
Full-stack mobile app that analyzes skincare ingredients using AI, async web scraping, and personalized routines.
Apr 2025 - Present • **case study**

- Built, maintained, and iterated independently across frontend, backend, data, and scraping pipelines.
- Re-architected scraping pipeline **Selenium → Playwright**, reducing flakiness and scrape time by 24%.
- Optimized database access patterns from **O(n²) lookup** to **O(n)** and consolidated writes into atomic transactions.
- Built a resilient fuzzy search with normalization and fallback matching to improve product discovery accuracy.
- Implemented global exception handling and consistent API schemas to stabilize production behavior.
- Designed production-ready **React Native UI** with reusable components, design tokens, and polished error/loading states.

Frontend Engineer - Freelance (Charisse Yeh)
Jul 2024 - Oct 2024 • **github**

- Enhanced user onboarding in a **React Native** app by collaborating with a UX/UI designer to implement **Figma** designs, integrating **Firebase** for secure user creation and photo uploads.
- Built a polished onboarding flow using Expo Router, custom components, and mobile animations, increasing user task completion reliability.

Software Engineering Intern - 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.
- Tested Map/Stuff Chain with RetrievalQA to refine earnings call summaries, improving financial insight extraction.

Relationship Banker - Bank of America
Jul 2022 - Nov 2022

- Fostered strategic partnerships by connecting clients with specialized bankers and provided personalized advice based on client financial needs, achieving a 20% improvement in client retention rates.

PROJECTS

Chat PDF | *(Python, Langchain, OpenAI, Streamlit)*   **live** | **github**

- Built a RAG-powered PDF Q&A chatbot using embeddings, vector search, and prompt chaining.

Grub Globe | *(JavaScript, Express.js, Node.js, MongoDB, React/Redux, AWS S3)*   **live** | **github**
A global social recipe explorer with AI chatbot and gamified recipe completion

- Implemented full-stack features including recipe CRUD, reviews, Redux state, and API integrations.

EDUCATION

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