

Michelle Weng

Software Engineer | Full-Stack, Applied AI & Product Delivery

New York, NY • michelleweng25@gmail.com • (718) 915-1919 • wengmichelle.com • linkedin.com/in/wengmichelle
github.com/rirachii

Experience

Founder & Product Engineer

Jan 2026 – present

Halfwind Studio

Independent product studio combining Halfwind, Pepo, Oompf, and other shipped creations | halfwind.studio

- Built Halfwind Studio as an independent product studio shipping web, mobile, and native products across AI, growth, and consumer workflows.
- Built Pepo on Next.js, TypeScript, Supabase, Python, and PostgreSQL, integrating 10+ client data sources for 10+ brand workspaces.
- Co-founded Oompf on React Native, TypeScript, and Supabase, growing an AI speaking-coach app to 9,000+ users across 15 countries.
- Shipped Foodex, Converty, Chirpberry, and PostAcross with SwiftUI, AppKit, Convex, FFmpeg, speech APIs, REST APIs, OAuth, and workspace-bound integrations.

Software Engineer & Software Engineer Intern

NYC, NY

JPMorgan Chase & Co.

June 2023 – Aug 2025

Software Engineer, 2024-08 to 2025-08 | Software Engineer Intern, 2023-06 to 2023-08

- **Software Engineer, 2024-08 to 2025-08:** Automated data-retention workflows across 25 jurisdictions for systems serving 1M+ users.
- **Software Engineer, 2024-08 to 2025-08:** Migrated 30+ components from Ember.js to React, improving platform load speed by 40%.
- **Software Engineer, 2024-08 to 2025-08:** Debugged API integrations and production failures through application logs, PostgreSQL queries, and end-to-end trace analysis.
- **Software Engineer, 2024-08 to 2025-08:** Hardened CI with type checks and contract tests, reducing regressions across shared platform flows.
- **Software Engineer Intern, 2023-06 to 2023-08:** Delivered a Java Spring Boot authentication API with OAuth and API-key authentication serving 10k+ daily requests.

Cloud Infrastructure Intern

NYC, NY

BMO Bank

Jan 2023 – Apr 2023

- Reworked AWS S3 storage architecture, reducing file size 8x and retrieval latency by 50%.
- Built Python recovery scripts and monitored CloudWatch logs to automate retrieval and validate data integrity.

Research

Undergraduate Researcher - Digital Twin

Buffalo, NY

University at Buffalo

May 2022 – Dec 2022

- Built an AWS digital twin for Ender 3D printers, streaming sensor data to a React dashboard with Lambda and API Gateway; trained YOLOv4 for malfunction detection.
- Won the 2022 Russell L. Agrusa Innovation Competition; co-authored a demo paper in ACM SenSys 2022.

Skills

Engineering: Python, TypeScript, Java, SQL, Swift, React, React Native, Next.js, SwiftUI

AI & Integration: Tool-calling agents, speech APIs, MCP, REST APIs, webhooks, OAuth

Data & Delivery: PostgreSQL, Supabase, Convex, AWS, Docker, CI/CD, production debugging, client discovery

Education

University at Buffalo

Buffalo, NY

BS in Computer Science

Sept 2020 – May 2024