

# Leonardo Chao

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Portfolio: <http://leonardochao.com/>

## SUMMARY

Software engineer with expertise in full-stack web development, AI integration, and scalable system design. Skilled in leading teams, optimizing workflows, and delivering high-quality technical solutions.

## EDUCATION

New York University, College of Arts and Science

Graduated: 01/2024

*Bachelor of Arts in Computer Science and Data Science*

## WORK EXPERIENCE

### AXCEL

Taipei, Taiwan (Remote from NYC)

*Co-founder, Chief Technology Officer & Project Engineer*

06/2025 – Present

- Designed and implemented AXCEL system architecture for scalable sensor data collection and real-time processing.
- Built backend infrastructure supporting live data streams and user interactions.
- Deployed and optimized AI models to transform sensor data into actionable insights.
- Acted as technical liaison between engineering teams and stakeholders to align product requirements.
- Led frontend team to deliver intuitive web applications transforming raw data into user-friendly interfaces.

### Red Date Technology

Hong Kong, China

*Software Engineering Intern*

06/2023 – 08/2023

- Led a team of 4 developers to re-engineer a responsive website, improving device compatibility and navigation.
- Integrated REST APIs to enhance data collection and simulate cryptographic transactions.
- Collaborated across departments to align technical features with business goals and presented results to shareholders.

## PROJECTS

### trainerGPT – AI-Powered Personal Training Assistant

Next.js | Firebase | OpenAI API | Stripe | Vercel

- Developed a full-stack web application providing a personal training assistant that generates **custom workout plans** and supports users via an AI chatbot.
- Engineered frontend using **Next.js** and **Material-UI**, enabling multi-language support and responsive UI design.
- Built backend services with **Firebase (Firestore, Storage)** to handle user data, image uploads, and chat log storage.
- Integrated **OpenAI API** for natural language processing and computer vision, powering:
  - AI workout plan generation and exercise video recommendations.
  - Pantry feature to identify fridge ingredients via image capture and suggest custom recipes.
- Implemented **Stripe** for premium subscription management and **Clerk** for secure user authentication.
- Deployed production-ready app on **Vercel** (<https://trainer-gpt.vercel.app>).

### NBA Lineup Tracker – Python Lineup Analysis Tool

Python | BeautifulSoup | Requests | Web Scraping

- Developed a **Python** script to track and analyze NBA team lineups using live data from [popcornmachine.net](http://popcornmachine.net).
- Implemented web scraping pipelines with **Requests** and **BeautifulSoup** to filter and analyze lineup performance.
- Built interactive CLI features allowing users to:
  - View all team lineups or filter by best/worst performers.
  - Search for lineups containing or excluding specific players.
  - Analyze lineup performance over user-specified game intervals.
- Documented setup and usage for technical and non-technical users.

## SKILLS & INTERESTS

Languages: Natively bilingual in English and Chinese

Technical Skills: Python, Next.js, React, Firebase, OpenAI API, HTML, CSS, Javascript, BeautifulSoup, Python Requests, Numpy, Pandas, Java, C