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 with cross-functional impact.

EDUCATION

New York University, College of Arts and Science   Graduated: January 2024

Bachelor of Arts in Computer Science and Data Science

WORK EXPERIENCE

AXCEL   **New York City, New York**

Co-founder, Chief Technology Officer & Project Engineer   Jun 2025 – Present

- Developed AXCEL's onboarding data system, enabling seamless collection and structuring of athlete/user information for personalized coach-friendly training workflows.
- Designed and executed front-end UI with a focus on usability and visual consistency, improving overall user experience.
- Integrated Retrieval-Augmented Generation (RAG) pipelines with OpenAI's API to generate personalized workout goals and multi-week training plans based on individual user data.
- Built a custom user authentication system, including secure storage and hashing of usernames and passwords, ensuring data privacy and platform security.

Compulsory Military Service (Republic of China)   **Taipei, Taiwan**

Private Second Class   Feb 2025 – Jun 2025

- Completed mandatory four-month national service on behalf of the Republic of China (Taiwan).
- Refined discipline and fostered teamwork under structured operational environments.
- Executed assigned tasks overnight and during the day independently or while collaborating with cross-functional teams.

Red Date Technology   **Hong Kong, China**

Software Engineering Intern   Jun 2023 – Aug 2023

- Led a 4-person dev team to refactor the site for responsiveness, cross-device compatibility, and cleaner UI/UX.
- Integrated REST APIs to enhance data collection and simulate cryptographic transactions to support investor pitches.
- 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 | Pinecone | Vercel

- Developed a full-stack web app offering **personalized workout plans** and **AI chat support**.
- 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 workout generation and image-based recipe suggestions.
- Implemented **Stripe** for premium subscription management and **Clerk** for secure user authentication.
- Built RAG-based chatbots integrating **vector databases (Pinecone)** and LLMs for dynamic information retrieval.
- Deployed production-ready app on **Vercel** (https://trainer-gpt.vercel.app).

NBA Lineup Tracker – Python Lineup Analysis Tool

Python | BeautifulSoup | Requests | Web Scraping

- Created Python tool to scrape and analyze NBA team lineups from live data.
- Added CLI features to view, filter, and analyze lineup performance across games.
- Documented setup for both technical and non-technical users.

SKILLS

Technical Skills: Python, Next.js, React, Typescript, Firebase, OpenAI API, HTML, CSS, Javascript, BeautifulSoup, Python Requests, Numpy, Pandas, Java, C, Retrieval-Augmented Generation (RAG), Pinecone

Languages: Natively bilingual in English and Chinese