

Edmund Chan

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Portfolio: <https://edmund-chan.com/>

PROFESSIONAL EXPERIENCE

May 2022 - Aug 2022 **Software Engineer, QA Engineer, KAIDU.AI**

- Designed and implemented an automated test suite for the API in Pytest. Implemented daily full endpoint coverage testing with the test result and alert, thus reducing manual testing effort by 90%.
- Perform API testing and work with the teams to prioritize and resolve bugs and technical debts
- Recognized display issues on the company dashboard and successfully assisted developers to fix them.
- Used Jira and git for version control. Pytest is used to implement all the tests.
- Team player: Report on Jira Kanban whenever a bug/problem is discovered. Kept 100% attendance at daily standup meetings.
- Good Learner: Learned and built a demo backend API service based on Nest.JS in a short amount of time. Took feedback from senior devs and successfully adapted concepts like modular design and good styling, thus reducing code size by 50%.

Related Experience

Software Engineer	Algorithms	Artificial Intelligence	GPT models
Data structure	Agile cycle	Full Stack development	Computer Organization
Generate Tests	Automation	Responsive Design	Web/Serverless Hosting

Projects

PDF GPT | FullStack, React.js, Material UI, Nest.js, Langchain, AI, GPT-3.5, Typescript

Summary

- An interactive website that allowed users to upload a pdf file and asked questions regarding the content of the document.
- The front-End part was built mainly by **React.js** with **Material UI**, supported by **RESTful** API services built in **Nest.js**.

Challenges & Interesting parts

- 1) Optimize the process for the GPT model to understand the content of uploaded pdf by utilizing LangChain's **Chain**, **TextSplitter** and **TextEmbedding** features.
- 2) First project involved the GPT model, which significantly improved my understanding of how different **Text chunk sizes**, **Chain models** and **Embedding methods** affect the responses of the GPT model.
- 3) Codes are typically well-structured and highly refactorable to accompany the rapid updates of LangChain library.

Facebook Clone | FullStack, Next.js, Nest.js, PostgreSQL, Next-Auth, Prisma, TypeScript

Summary

- A full-stack project emulated classic Facebook features. Allowed visitors to **send posts** with **texts & pictures**, or **leave comments** under posts. Functionality like: **Search User**, **send/accept friend requests** are combined into a **Friend Page**.
- **Next-Auth** was chosen as an OAuth measurement, while **NextJs** responded for the UI design, **NestJs** served as **RESTful** API services, **bit.io** was chosen as a cloud **PostgreSQL** database, and **Prisma** was selected as an ORM solution.

Challenges & Interesting parts

- 1) Migrated **Node.js** and **React.js** skills to other frameworks(**Nest.js** and **Next.js**)
- 2) **SSR(Server side rendering)** was involved in enhancing user experience, while **CSR(Client side rendering)** provided real-time responses to user's actions (posts/comments)
- 3) Successfully implementing the **RESTful** API services in **Typescript**, improved the backend services' consistency.

EDUCATION

Toronto Metropolitan University(Ryerson University)

B.Sc Computer Science -In Progress(6/8 semester)

Dean List (2020-2023)

Toronto, On

Sept 2020-Present

Skills

Skills: Java, Python, C, Javascript, Html, CSS, PostgreSQL, React.js, Next.js, Nest.js, Node.js, Firebase, Git, Slack, Jira, Next-Auth, TypeScript