CHAN YAT FU JACKY

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Education

The University of Hong Kong — **Sept 2019 – Now**
BEng in Computer Engineering — *Advanced Courses GPA 3.46*

- 2022-2023 Year GPA: 3.85 (12 courses)
- **Winner (Top 11 out of 136 projects)** – Final Year Poject Poster Competition
- **Finalist (Top 6)** – Generative AI Hackathon for Social Good
- A+ in Operating Systems, Digital System Design, Probabilistic Systems Analysis
- A range in Machine learning, Artificial intelligence, Algorithm design, Computer and communication networks, Introduction to database management systems, Object-oriented programming and Java, Integrated design project

Work Experience

Software Developer – Novbee — **June 2023 – January 2024**
Part-time Software Developer — *August 2023 – January 2024*

- Enhanced the company's digital presence by developing the company website using **React/Next.js**, and **FastAPI**.
- Conceived and executed the backend infrastructure and database schema for the company.
- Leveraged knowledge in **React**, **TypeScript**, **Next.js**, **FastAPI**, **PostgreSQL**, **GraphQL**, **AWS**, and **Azure**.

Software Developer Intern — *June 2023 – August 2023*

- Increased the efficiency of the company's data processing process by implementing a automated data collecting and cleaning pipeline using **Python** and **Selenium**.
- Engineered a Singing Voice Synthesis model utilizing **PyTorch** in **Linux** environment.
- Leveraged knowledge in **Python**, **PyTorch**, **Pandas**, **NumPy**, **Bash Script**, **Docker**, and **Selenium**.

Digital Marketing and Data Analytics Intern – Homie Living — **May 2022 – August 2022**

- Increased the open and click rates of email campaigns by **22% and 17%** respectively by redesigning the content.
- Enhanced the Google search ranking of **10 keywords** to the **top 3 positions** by refining SEO strategies.
- Leveraged knowledge in **Excel**, **Google Analytics**, **Google Ads**, and **MailChimp**.

Individual Projects

MIDI Editor: A versatile and customizable MIDI editor library. — **Demo**

- Developed a **React** library for creating and editing MIDI files with a highly interactive interface.
- Showcased the library's capabilities by implementing a singing voice synthesizer in **Next.js** using this library.
- Incorporated essential features such as **clipboard, undo/redo, import/export, and lyric input**.
- Utilised: React, Jest, React Testing Library, Next.js, CSS, TypeScript, Rollup.

Hooks: A fully tested React hooks and TypeScript utilities library. — **Source Code**

- Designed a comprehensive collection of modular **React** hooks and **TypeScript** utilities.
- Achieved 99% test coverage using **Jest** and the **React Testing Library**.
- Integrated **GitHub Actions** for continuous integration and deployment.
- Utilised: React, Jest, React Testing Library, Github Actions, TypeScript, Rollup.

ICMS: A comprehensive course management dashboard. — **Source Code**

- Integrated a **facial recognition** component for enhanced security during login.
- Provides **real-time course schedules** and information based on the user's context and timing.
- Enhanced user interaction by enabling the forwarding of course-related information to personal email accounts.
- Utilised: TypeScript, Python, FastAPI, Solid.js, TailwindCSS, MySQL, OpenCV.

Stay Hydrated: Interactive console-based application for water intake tracking. — **Source Code**

- Developed using **React** and **Ink** for a modern user interface, with **LokiJS** for data management.
- Engineered to operate **in the background**, automatically tracking water consumption and delivering notification.
- Utilised: TypeScript, React, Ink, LokiJS, Node.js.

Technical Skills

Languages	(proficient): TypeScript, JavaScript, Python, HTML, CSS (familiar): Java, PHP, Haskell, C++
Frameworks & Tools	Next.js, React, Solid.js, Node.js, Express.js, FastAPI, PyTorch, TailwindCSS, Selenium, Jest, React Testing Library, OpenCV
Cloud & Databases	AWS, Azure, SQL, NoSQL, MySQL, PostgresQL, MongoDB
Other Technologies	Docker, GraphQL, REST, Linux, Git, GitHub Actions