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

Buddhist Sin Tak College
Hong Kong Diploma of Secondary Education Examination

- **DSE**: 5* in English Speaking, 5 in English Writing; **IELTS** (2019): 8.5 in Reading, 7.5 in Listening

Work Experience

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

- Developed and maintained a website leveraging **React.js**, **Next.js**, **FastAPI**, **PostgreSQL**, and **GraphQL**.
- Conceived and executed the backend infrastructure and database schema for the company.

Software Developer Intern   *June 2023 – August 2023*

- Engineered a Singing Voice Synthesis model utilizing **PyTorch** in **Linux** environment.
- Wrote **Python/Selenium** automation scripts to facilitate data collection and processing.
- Developed a user-friendly **React** website enhancing the company's digital presence.

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

- Enhanced the open and click rates of email campaigns by 22% and 17% respectively.
- Optimized SEO strategy leading to **top 3 Google search rankings** for various keywords (4 ranked first, 4 ranked second, 2 ranked third).
- Devised a marketing campaign reaching thousands of audience members, resulting in daily sales figures exceeding $100K.

Individual Projects

MIDI Editor: A versatile and customizable MIDI editor library.   **Source Code**

- Developed a **React** library for creating and editing MIDI files with a highly interactive interface.
- Implemented a practical singing voice synthesizer in **Next.js** using this library as an illustration.
- Incorporated vital features such as **clipboard, undo/redo, import/export, and lyric input**.
- Designed to be responsive and **mobile-friendly**.

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

- Designed a comprehensive collection of modular **React** hooks and **TypeScript** utilities.
- Ensured robustness and reliability through extensive testing with **Jest** and **React Testing Library**.
- Source code maintained for optimal performance and scalability.

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 managing data.
- Engineered to operate **in the background**, automatically tracking water consumption and delivering notification.

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

- Integrated a **facial recognition login component** for enhanced security.
- Delivers real-time course schedule and information depending on user's context and timing.
- Augmented interaction by enabling users to forward course-related information to their personal email accounts.

Technical Skills

Languages TypeScript, JavaScript, Node.js, Python, Java, HTML5, CSS3
Frameworks & Tools Next.js, React, Solid.js, Express.js, FastAPI, PyTorch, TailwindCSS, Selenium, GSAP
Cloud & Databases AWS, Azure, SQL, NoSQL, MySQL, PostgreSQL, MongoDB
Other Technologies Docker, GraphQL, REST, Linux, Git, GitHub Actions