

# CHAN YAT FU JACKY

☎ +852 64676899 ✉ [chanyatfu0616@gmail.com](mailto:chanyatfu0616@gmail.com) 🌐 [chanyatfu](#)

## Education

### The University of Hong Kong

*BEng in Computer Engineering*

Sept 2019 – Now

*Advanced Courses GPA 3.46*

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

### Language Qualifications

- **DSE English: 5\* in Speaking**, 5 in 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*

- 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

- Boosted data processing efficiency by developing an automated processing pipeline with **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 improving the content.
- Enhanced the Google search ranking of **10 keywords** to the **top 3 positions** by refining SEO strategies.

## Projects

### MIDI Editor (React): A versatile and customizable music workstation

[GitHub Repo](#)

- 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**.
- Demo: <https://react-midi-editor-demo.vercel.app> | Utilised: TypeScript, React, Next.js, Jest/RTL, SCSS.

### Tic-tac-toe (Java): A multi-player game utilizing socket and multi-threading

[GitHub Repo](#)

- Integrated **socket programming**, **multi-threading** to manage game state and user interactions.
- Implemented a dynamic **Java Swing** GUI for real-time game status updates and player interactions.
- Improved game stability by handling **network disruptions** and **player disconnections** effectively.

### Hooks (React): A fully tested React hooks and TypeScript utilities library

[GitHub Repo](#)

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

### Folded (Java): A interactive GUI card game

[GitHub Repo](#)

- Developed a **Java-based** card game using Swing, managing shuffling, betting, and rule enforcement.
- Created interactive GUI elements for card replacement and result evaluation.

### ICMS (TypeScript/Python): A comprehensive course management dashboard

[GitHub Repo](#)

- Integrated a **facial recognition** component for enhanced security during login using **OpenCV**.
- Utilised: TypeScript, Python, FastAPI, Solid.js, TailwindCSS, MySQL, OpenCV.

## Technical Skills

Languages	TypeScript/JavaScript/Node.js, Java, Python, Shell Script
Frameworks & Tools	React/Next.js, Spring Boot, Express.js, FastAPI, Jest, React Testing Library, Selenium
Cloud and DevOps	AWS, Azure, Docker, Git Hooks, GitHub Actions
Databases Related	Prisma, GraphQL, SQL, MongoDB, Redis