

# Chan Yat Fu Jacky

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## Education



### The University of Hong Kong

Sept 2019 – June 2024

BEng in Computer Engineering

- Penultimate Year GPA: 3.85 | Final Year GPA: 3.64
- A+ in Operating Systems, Digital System Design, Probabilistic Systems Analysis
- A range in OOP and Java, Advanced database systems, Computer and communication networks, Artificial intelligence, Machine learning, Algorithm design, Senior design project, Integrated design project, Intro to DBMS, Technical English for EEE

## Professional Certification [↗](#)

- AWS Certified Solutions Architect - Associate (SAA-C03) — Amazon Web Services [Jun 2024]
- AWS Certified Cloud Practitioner (CLF-C02) — Amazon Web Services [May 2024]

## Competitions, Honors and Awards



### Finalist — HKU Generative AI Hackathon for Social Good [Oct 2023]

- Led a team of 5 developers to secure **2nd runner-up** in the Productive Collaborative Work Award
- Ranked as a **finalist out of 24 teams** by developing an ADHD-targeted application using **Spring Boot**, **Java**, and **React**.



### Winner — HKU Final Year Project Competition [Apr 2024]

- Distinguished as one of the **11 winners (top 8%)** among 136 HKU CE/EEE final year projects.
- Worked on the title of "Implementation of a Singing Voice Synth with MIDI Programming" using React, FastAPI, and PyTorch.

## Work Experience



### NovBee Limited

June 2023 – January 2024

- **Full Stack Developer - Internship / Aug 2023 - Jan 2024**

- Developing the company website and related API service using **Node.js, React, and Python**.
- Conceived and executed the **backend infrastructure** and **database schema** for the company utilizing Azure.
- Incorporated **user authentication** functionality into the system website.
- Applied knowledge in **Node.js, React, TypeScript, Python, PostgreSQL, GraphQL, Azure**.

#### ○ **Software Developer - Internship / Jun 2023 - Aug 2023**

- Engineered a data processing pipeline that gather and cleanup **500+ hours of audio data** using **Python and Selenium**.
- Engineered a Singing Voice Synthesis model that result in high MOS utilizing **PyTorch**.
- Developed the company website and related API service using **Node.js and React**.
- Applied knowledge in **Node.js, React, TypeScript, PostgreSQL, GraphQL, Azure**.

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## Homie Living

May 2022 – August 2022

#### ○ **Digital Marketing and Data Analytics Intern - Internship / May 2022 - Aug 2022**

- Enhanced Google search ranking of **10 keywords** to the **top 3 positions** through refined **SEO** strategies.
- Increased email open and engagement rates by **22%** and **17%** respectively by improving content quality.
- Applied knowledge in **Python** and **SEO**.

## Projects

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### Wavy: A web-based Music Workstation (Individual)

#### Demo Video

- Enhanced UX with a **resizable** and **scrollable** canvas featuring history, import/export, and clipboard functionalities.
- Integrated backend voice synthesizer enabling the **generation of vocal tracks**.
- Provided an isolated library for **custom utilization** and **style modification**. | Demo video: [http://youtu.be/uQ2K\\_xgbq7g](http://youtu.be/uQ2K_xgbq7g)

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### ICMS: Course Management Dashboard (Group)

#### Demo Video

- **Led a 5-people backend development team** and was fully responsible for the **frontend** and **database** of the application.
- Provides **real-time course schedules** and information based on the user's context and timing.
- Integrated a **facial recognition** component for login using **Python**.

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### 2-player Game: Game Utilizing Socket and Multi-threading (Individual)

- 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.

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

- Developed a **Java-based** card game using Swing, managing shuffling, betting, and rule enforcement.

- Created interactive GUI elements for card replacement and result evaluation.

## Technical Skills

Programming Languages	Java, Node.js, TypeScript, JavaScript, Python, PHP, SQL, GraphQL
Frameworks & Tools	Spring Boot, J2EE, React, Express.js, Flask, FastAPI
Cloud & DevOps	AWS, Azure, Terraform, Docker, GitHub Actions
Databases & ORM	Redis, MySQL, MongoDB, MySQL, PostgreSQL
Language	English (DSE level 5), Cantonese (Native), Mandarin (Native)