CHAN YAT FU JACKY

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Education

The University of Hong Kong   **Sept 2019 – June 2024**

BEng in Computer Engineering
- 2022-2023 Year GPA: 3.85
- 2023-2024 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

Buddhist Sin Tak College   **Sept 2013 - Jun 2019**
- **IELTS (2019)**: 8.5 in Reading, 7.5 in Listening
- **DSE English**: 5* in Speaking, 5 in Writing

Competitions, Honors and Awards

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 PyTorch, FastAPI, and React.

Finalist – HKU Generative AI Hackathon for Social Good [Oct 2023]   **Link**
- **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** and **React**.

Professional Certifications

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

Work Experience

NovBee Limited   **June 2023 – January 2024**

| *Full Stack Developer – Part-time*   *August 2023 – January 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.
- Ensured the website is **responsive** to provide an optimal user experience across different devices.
- Applied knowledge in **Node.js**, **React**, **TypeScript**, **Python**, **PostgreSQL**, **GraphQL**, **Azure**.

| *Software Developer – Intern*   *June 2023 – August 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**.
- Developing **5 pages** of the company website and related API service using **Node.js** and **React**.
- Applied knowledge in **Node.js**, **React**, **TypeScript**, **PostgreSQL**, **GraphQL**, **Azure**.

Homie Living   **May 2022 – August 2022**

| *Digital Marketing and Data Analytics Intern*   *August 2023 – January 2024*
- 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

Wavy: Web-based Music Workstation (Individual)   **Demo Video**
- Enhanced UX with a **resizable, 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 | Utilised: React, Node.js, TypeScript, Python, Jest, RTL, SCSS.

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**.
- Utilised: React, TypeScript, Python, MySQL.

Hooks: React Hooks and Node.js Utilities Library (Individual)   **GitHub Repo**
- Designed a comprehensive collection of modular **React** hooks and **Node.js** utilities in **TypeScript**.
- Achieved **99% test coverage** using **Jest** and **React Testing Library**.
- Utilised: React, TypeScript, Jest, RTL, Github Actions, Rollup.

Technical Skills

Languages	Java, Node.js, TypeScript, JavaScript, Python, PHP, SQL, GraphQL
Frameworks & Tools	Spring Boot, React, Express.js, FastAPI
Cloud & DevOps	AWS, Azure, Terraform, Docker, GitHub Actions
Databases & ORM	Redis, MySQL, MongoDB, MySQL, PostgreSQL