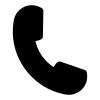
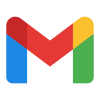
Patrick (Wenshin), Luo

MSc Computing Science student, graduate in **09/2025**

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**EDUCATION**

| MSc-Computer Science, Queen Mary University of London | | | | **graduate in 09/2025** | |
| --- | --- | --- | --- | --- | --- |
| KEY MODULE: Data Analysis | Machine Learning, Database (MySQL) | Software Engineering (OOP) | Computer Architecture and Networks | Security and Authentication (Linux) | Interactive System Design (UI/UX) | | | | | |
| MSc-Biomechatronics Engineering, National Taiwan University - Taipei, Taiwan | | | 2019 | | |
| KEY MODULE: Applications of Matlab on Engineering | Bio-industrial machinery | Nano-electromechanical Systems | | | | | |
| BA-Chemical Engineering, Chang Gung University - Taoyuan, Taiwan | | | | 2016 | |
| KEY MODULE: Unit operation | Thermodynamics | Reaction kinetics | | | |  | |

**SKILLS**

| BACKEND DEVELOPMENT | Java | Spring Boot | Python | Flask | Django |
| --- | --- |
| FRONTEND DEVELOPMENT | Javascript | Jquery | HTML | CSS |
| MISCELLANEOUS | Docker | RestAPI | SQL | Azure | GCP | Apache Kafka | Machine Learning | C |

**WORK EXPERIENCE**

| **Mechanical Engineer,** CTCI Corp. | Conducted technical evaluations for EPC project bids. | 2021 - 2024 |
| --- | --- | --- |
| **Research Assistant,** NTU | Co-ordinated in research projects related to test strip development for drugs. | 2016 - 2018 |

**PROJECTS**

| **INTERVIEW x GenAI** |  | Jul 2024 |
| --- | --- | --- |
| * This project was developed in collaboration with the **Working Development Agency** and **Wistron corporation**. * Designed and built a web application to enhance user skills. Implemented features for mock interview, video analysis, course recommendations, and job-welfare search. * Developed two **Flask** web APIs: one for **GCP Cloud storage**, **Text-to-Speech**, and **Gemini-1.5-flash** integration; another for **RAG** working with Gemini-1.5-flash.Another API is **RAG** working with Gemini-1.5-flash. * Built a user-friendly interface using **HTML**, **CSS** (Bootstrap), and **JavaScript** (jQuery). * Managed dependencies using virtual environments and deployed the application on **Azure** and GCP. | | |
| **Line Chatbot: Uniqlo Price Checker** |  | Jan 2024 |
| * Built a price bot to compare product prices and stock status between Uniqlo Japan and Taiwan. More than **110** people are using this bot. * Using **Flask** and **Messaging API** for the popular messaging app **Line** and scraping from sites using **BeautifulSoup4**. Also integrated Azure **OCR** for price tag extraction. * Implemented secure real-time webhook testing with ngrok and deployed the bot on **Heroku**, **Railway**, **Azure**, and **GCP** while managing dependencies using virtual environments. | | |

**CERTIFICATIONS**

| **CS50x,** Harvard University | Ten problem sets and one final project. | Apr 2024 |
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