

**Hongli Ji**

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## PROFILE

Aspiring **Software Engineer (Python)** with a strong foundation in computer science (BSc+MSc) and hands-on experience building Python-based systems, automation workflows, and machine-learning projects. Skilled in debugging, problem-solving, and explaining technical concepts clearly through informal Python mentoring. Completed practical academic projects involving NLP, backend architecture, MySQL, and embedded systems. Actively seeking **junior/graduate software engineering** roles in London.

## EDUCATION

### **MSc Computer Science - Queen Mary University of London(2024-2025)**

Upper Second-Class (2:1) Honours

Key Modules: Machine Learning, Semi-structured Data Engineering, Bayesian Decision& Risk Analysis, Data Analytics, Security & Authentication, Functional Programming

### **BSc Computer Science -University of Birmingham(2021-2024)**

Upper Second-Class(2:1) Honours

Key Modules: OOP, Functional Programming, Operating Systems, AI, Security & Networks

## TECHNICAL SKILLS

**Languages:** Python (intermediate), Java, JavaScript, PHP, C, Rust (basic)

**Python Tools/Libraries:** NumPy,Pandas, PyTorch (academic), MySQL connectors, Regex, CSV/JSON handling, scripting modules (os)

**Frameworks & Tools:** Git, MySQL, Excel VBA, RPA tools, Linux basics

**Design Tools:** Adobe Photoshop, Illustrator

**Spoken Languages:** English (Fluent), Mandarin (Native)

## TECHNICAL & PROJECT EXPERIENCE

### **AI Shopping Assistant-MSc Final Project (2025)**

- Developed an AI-powered shopping assistant using **BERT-based NLP models** for intent recognition and product recommendation.
- Built a **MySQL-backed product search system** supporting style, price, and category queries with fuzzy matching.
- Designed a **modular, API-ready backend architecture**, enabling easy scaling and integration with distributed systems.
- Delivered a fully working prototype demonstrating improved user query understanding and retrieval accuracy.

### **Technology Intern - Bank of China UK, Financial Management Department(2024)**

- Automated daily financial reporting workflows using **RPA tools** and **Excel VBA**, reducing manual effort and errors.
- Designed pipelines to parse .lin files, apply business rules, and generate structured Excel reports.
- Integrated automation with scheduled email distribution, delivering bilingual(English/Chinese) reports to multiple teams.

#### **Firewall System using Raspberry Pi PicoW-BSc Thesis (2024)**

- Built a low-cost wireless firewall using the Raspberry Pi Pico W and custom packet filtering in C.
- Implemented device authentication to secure local networks, reducing unauthorised access by **80%** in testing.

#### **Machine Learning Training Web Platform- Web Dev Project (2023)**

- Implemented Python scripts for data preprocessing, model training, and evaluation.. Integrated backend ML tasks with a JavaScript/PHP interface to streamline workflows.
- Improved training setup efficiency by 40%.

#### **Food Waste Sorting UI-HCI Group Project (2023)**

- Led a 5-member team to design an accessible UI for a recycling system.
- Conducted research with 20+ users, produced high-fidelity prototypes, and achieved a top 10% project ranking.

#### **Python Mentoring & Support (Informal, 2025-Present)**

- Provides one-to-one support for a beginner learning Python, explaining core concepts and helping debug errors.
- Guides how to interpret error messages, reason through code, and apply clean coding principles.
- Strengthened my own understanding of Python fundamentals and communication skills.

### **WORK EXPERIENCE**

#### **Brand Promotion & Sales Assistant- Lee Kum Kee UK (2023-2025)**

- Supported marketing and sales initiatives at major UK events, including BBC Good Food Show Birmingham(2023 & 2024).
- Demonstrated products, engaged customers, managed stock levels, and supported quarterly cooking demos in London.
- Coordinated event logistics and collected customer feedback, contributing to improved marketing strategies.

### **LEADERSHIP & VOLUNTEERING**

#### **Red Cross China Volunteer (2022)**

- Assisted with community outreach, public engagement sessions, and volunteer coordination.