

# MAY QI-MEI LAI

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## EDUCATION

**University of Pennsylvania – Master of Computer Information Technology (CGPA: 4.0)** United States, expected Jun 2025

- Courses: Computer Systems Programming (C/C++), Data Structures & Algorithms (Java), Databases & Information System (SQL), Machine Learning (Python), Wireless Communications & Internet of Things (C/C++)

**The University of Hong Kong - Bachelor of Economics and Finance (CGPA: 3.75, Top 5%)** Hong Kong, Sep 2012-Jul 2015

- Honors: First Class Honor; Dean's Honors List; Beta Gamma Sigma Member; HKU Foundation Scholarship for Outstanding Mainland Students and HKU Worldwide Scholarship (No. 1 in University Entrance Examination in Guangdong Province)
- Academic Exchange: University of Virginia (Aug 2013-Dec 2013), Peking University (Sep 2011-Jul 2012)

## PROJECT EXPERIENCE

**Seckill High Concurrency Online Shopping System (Java, HTML/CSS, MySQL, Spring Boot, MyBatisPlus, XML)**

- Built a full-stack web service for online Limited-time Offers that supports 100K queries per second and efficiently manage orders and stocks of promotion products with traffic control, caching and page staticization
- Built AJAX-based frontend user login and online shopping interface with HTML/CSS, managed backend database (users, products, orders) with MySQL and implemented CRUD with Java, Spring Boot and MyBatisPlus
- Managed high concurrency user login and order placement with Redis on Linux and conducted pressure testing with JMeter

**Movie Chatbot Script Recommendation System (Java, JSoup, HTML/CSS)**

- Developed and trained a chatting robot application in Java that learns from 100+ movie scripts and chats with users
- Engineered a ScriptCrawler that utilizes JSoup to systematically extract and organize movie scripts from websites and efficiently stores scripts in database with Huffman Coding compression achieving 30%-50% storage savings from original size
- Designed and implemented reply recommendation system based on TFIDF Relevance and incorporated dynamic reply selection optimization mechanisms based on continuous user feedback

**Penn-themed Web Photo Editor (JavaScript, HTML/CSS, REACT, JIMP, Node.js)**

- Developed a full-stack image editing web application with JavaScript to apply 10+ distinctive Penn-themed features to photos
- Built frontend user interface website with React and CSS/HTML that enables easy Penn-themed feature application to photos through user-friendly buttons and tool bars
- Utilized JIMP library within Node.js to implemented backend image editing functions (Penn-theme stickers, filters and photo frames) and image upload and download

## PROFESSIONAL EXPERIENCE

**Nomura - Debt Capital Markets Vice President** Hong Kong, Dec 2018-Dec 2023

- Managed the origination and the execution of 50+ bond, loan and liability management transactions
- Proposed bespoke liability management and bond offering solutions to 100+ Asian SSAs, corporates and financial institutions
- Performed financial modelling, credit analysis for rating advisory, covenant analysis for deal structuring and pricing analysis
- Arranged investor marketing and IR programs for 50+ corporate issuers and facilitated investor communications

**BNP Paribas - Debt Capital Markets Associate** Hong Kong, Jun-Aug 2014 & Jul 2015-Dec 2018

- Managed the execution of 40+ public bond transactions, raising \$50bn+ for sovereign and FI issuers in Asia

**Digitalization Projects – IBD Digitalization Team Lead**

- IBD SharePoint Website: Led a team of 6 colleagues to design and build IBD SharePoint website; Independently designed and implemented Toolkit section for information sharing with data security hierarchy
- Online Deal-log Platform: Conducted user experience research on the existing manual deal-log process, proposed online deal-log platform features and managed the implementation of the deal-log digitalization process of the department

## ENTREPRENEURSHIP

**FoodRocks Ltd. (Lunch delivery start-up) - Chief Operating Officer** Hong Kong, Oct 2014 – Jul 2015

- Managed a team of 15+ employees, oversaw the daily operation and addressed emergencies; Directed the standardization of operating process and achieved 50% efficiency improvement in lunch set distribution while minimizing error
- Performed market research and directed order placement website design, campus marketing and partnership development

## OTHER SKILLS & INTERESTS

- Language: Native in Cantonese and Mandarin, fluent in English (TOEFL 112)
- Programming Languages: Proficient in Java and Python; familiar with C/C++, SQL, JavaScript, HTML/CSS
- Technologies: Linux, AWS, MySQL, PyTorch, NumPy, Matplotlib, React, Node.js, Spring Boot, MyBatisPlus, Thymeleaf, JMeter