Jennifer Kuo

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TECHNICAL SKILLS

- **Web Development:** Java, Spring Boot, Javascript, Typescript, Angular, Node.js, HTML/CSS
- **Database**: PostgreSQL, MySQL, MongoDB, Firebase
- **Microservices & Cloud**: Docker, Logstash, Kafka, Red Hat OpenShift, Google Cloud Platform
- **Others:** Git, Linux, Apache Beam, Unit Test, JMeter (Performance Test), CI/CD, Unity 3D (C#), Python

WORK EXPERIENCE AND PROJECTS

IBM, Taiwan | Cloud Application Developer – 2021/02 - present

SSO Authentication for Banking System (Taiwan Cooperative Bank, Taiwan) – 2023/04 - present

- Implemented four authentication methods adhering to the OIDC (OpenID Connect) protocol, seamlessly integrating them into the banking system.
- Refactored the code base, transitioning from server-side JSP rendering to a modernized architecture using Spring Boot and Angular, enhancing system efficiency and maintainability.
- Developed a specialized logging SDK and service, enabling real-time tracking of exceptions during transaction processes across multiple servers. This transformation played a pivotal role in optimizing error and status traceability for users.

Simulation Testing System (Shanghai Commercial and Savings Bank Ltd, Taiwan) – 2023/02 - 2023/04

- Architected a simulation testing system to bolster the migration process of a novel banking system, ensuring robustness and reliability.
- Leveraged Logstash for data ingestion, while utilizing Apache Beam for advanced stream and batch data processing, transforming raw logs into structured data. Employed MongoDB as the primary data store for processed logs. Integrated Kafka to manage real-time data streams and ensure seamless communication between distributed systems for effective job triggering and coordination across servers.
- Conducted meticulous performance testing, achieving a throughput of 3,000 TPS, confirming the system's readiness for high concurrency.

Quest for Experience Builder (IBM, China) – 2021/09 - 2022/06

- Delivered comprehensive frontend and backend development contributions for the "Quest" chatbot, a pioneering tool converting natural language into actionable SQL queries.
- Integrated an NLP service developed by our US team alongside the Apache OpenNLP library, enhancing the chatbot's capability for accurate natural language processing and classification tasks.
- Leveraged OpenShift for efficient deployment and robust service management, highlighting IBM AI team's capabilities, and earning commendable stakeholder feedback.

IBM, Taiwan | Application Developer (Summer Intern) – 2019/07 - 2019/09

Oursky, Hong Kong | Web Developer (Winter Intern) – 2017/01 - 2017/02

EDUCATION

M.S. | National Tsing-Hua University, Information Systems and Applications – 2020
Computer Graphics & Vison Lab (EECS)

B.S. | National Sun Yat-sen University, Information Management – 2018

OTHERS

- **Certification:** Google Cloud Certified Associate Cloud Engineer – 2023/06
- **Publication:** "Investigating Four Navigation Aids for Supporting Navigator Performance and Independence in Virtual Reality", International Journal of Human-Computer Interaction – 2022/07
- **Language:** English (TOEFL 99 / TOEIC 940), Chinese (Native Speaker)