Jennifer Kuo

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TECHNICAL SKILLS

- **Programming Language:** Java, Python, Typescript, JavaScript, C#
- **Web Development:** Angular, Spring Boot, Node.js, HTML/CSS, REST API, WebSocket
- **Database**: PostgreSQL, MongoDB, Firebase
- **Microservices & Cloud**: Docker, AWS, Google Cloud Platform, Red Hat OpenShift, Kafka
- **Others:** Git, Linux, OAuth, Swift, JWT, Figma, Apache Beam, JMeter, CI/CD, Unity

WORK EXPERIENCE

Backend Engineer | Crypto Owl (Trading Firm) – 07/2024 - 01/2025, Remote

- Independently architected and developed a Python-based trading system, integrating APIs from 5+ exchanges and leveraging asynchronous programming and multithreading to handle concurrent WebSocket connections for real-time market data streaming.
- Scaled the system to manage $2M+ assets for 10+ clients within 6 months from the ground up, delivering a robust and reliable backend infrastructure.
- Deployed secure and scalable AWS infrastructure with automated CI/CD pipelines using GitHub Actions, achieving 99.9% system uptime.
- Drove 50% team growth by recruiting developers and mentoring a new team member and establishing best practices to streamline onboarding and enhance operational excellence.

Full Stack Developer | IBM – 02/2021 - 11/2023, Taiwan

- Redesigned and implemented authentication systems by refactoring the existing codebase, leveraging OpenID Connect, Spring Boot, and Angular, enhancing security and efficiency for financial institutions.
- Engineered a data simulation system for banking migrations, leveraging Kafka, MongoDB, and the ELK stack to support reliable data processing and enhance migration accuracy.
- Developed and optimized an AI-powered natural language chatbot for querying reports, integrating Apache OpenNLP and IBM Watson within a microservices architecture on OpenShift and Kubernetes.
- Orchestrated CI/CD pipelines with OpenShift, Docker, and Kubernetes, ensuring scalable and automated deployments.
- Partnered with global teams, including PMs, engineers, and architects, as well as clients across the U.S., Europe, and Asia, to deliver tailored solutions aligned with complex technical and business needs.

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

- Crafted responsive web design (RWD) pages using Figma, Angular, HTML, and CSS, delivering a seamless user experience across devices and supporting over 3,000 users in accessing the platform efficiently.

Software Developer Intern | Nasrio – 01/2018 - 07/2018, Taiwan

- Developed mobile application interfaces using Ionic, Swift, and Android SDK, delivering intuitive and responsive designs tailored to client requirements.

EDUCATION

M.S. | National Tsing-Hua University, Information Systems and Applications – 2020, Taiwan

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

VOLUNTEER   Rapture Surf Camp Volunteer – 04/2024 - 06/2024, Portugal

CERTIFICATION   Google Cloud Certified Associate Cloud Engineer – 06/2023

PUBLICATION   "Investigating Four Navigation Aids for Supporting Navigator Performance and Independence in Virtual Reality", International Journal of Human-Computer Interaction – 07/2022

LANGUAGE   English (Professional working proficiency), Chinese (Native), German (Basic)