

# 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, JWT, Figma, Apache Beam, Unit Test, CI/CD, Unity

## WORK EXPERIENCE

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

- Independently Architected and developed a Python-based trading system, integrating APIs from 5+ exchanges and leveraging WebSocket for sub-second latency in 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

- Designed and implemented authentication systems 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 process real-time data logs, achieving 3,000 TPS throughput during performance testing.
- Designed and optimized a scalable backend services for natural language chatbots, integrating Apache OpenNLP and IBM Watson with 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**  
Computer Graphics & Vision Lab (EECS)

**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)