CHIA-LIN (JAELYN) LIU

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WORK EXPERIENCE

Software Engineer at **Bloomberg**   New York, NY   *Jul 2021 - Present*
Tech Stack: Python, C++, Airflow, Spark, SQL, Kubernetes, S3-Compatible Cloud Storage

Designed Export Size Calculation Microservice
• Designed and built a micro-service and database that automated exporting client data export billing details, cutting manual operations by 95% and improving processing efficiency.
• Automated generation and distribution of formatted export details, handling multiple data sources and export types.
• Introduced an auditing feature that tracked and recorded all generated and delivered reports, enhancing data integrity and reducing debugging time by 60%.

Facilitated Re-architect of Reporting Orchestration Pipeline with Airflow
• Improved pipeline observability and retry mechanisms, enhancing overall pipeline efficiency.
• Integrated Single Sign-On (SSO) for authentication and access role management, increasing security and streamlining user access.

Cross-Team Integration and Data Privacy
• Represented my team in a cross-functional project to integrate new chat event types from the upstream team into clients chat reports, ensuring data privacy and security.

Watchdog Monitoring System
• Built a watchdog to monitor daily export jobs, ensuring timely generation and delivery. Achieved a 10% increase in on-time report generation, enhancing overall operational efficiency.

Culture and Communication Leadership & Recruiting and Diversity Efforts
• Led the Culture Council, organizing team-building events, co-hosting 2 Hackathons and authoring quarterly newsletters. Collected and reported team metrics, providing actionable insights that improved communication and team dynamics.
• Actively participated in recruiting events, conducted candidate interviews, and supported diversity and inclusion initiatives.

Software Engineer Intern at **Qualcomm**   *Jun 2020 - Sep 2020*
• Automated image signal processor code generation to accelerate the entire development process. Saved more than 800 days by automatically creating bug-free C++ codes for more than 200 modules.

EDUCATION

University of Washington   *Sep 2019 - June 2021*
M.S. in **Electrical and Computer Engineering**   GPA: 3.8/4.0

National Chiao Tung University   *Sep 2015 - Jun 2019*
B.S. in **Electronics Engineering** & **Interdisciplinary** in **Computer Science**   GPA: 4.2/4.3

SKILLS

Python, C++, SQL, scripting, git, docker, Jenkins, Airflow, Kubernetes, S3, celery, BAS, Comdb2

PUBLICATIONS

• Dressing for Attention: Outfit Based Fashion Popularity Prediction
Accepted by *IEEE International Conference on Image Processing 2019 (oral)*