

# CHIA-LIN (JAELYN) LIU

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## WORK EXPERIENCE

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**Software Engineer at Bloomberg** New York, NY *Jul 2021 - Present*

*Tech Stack: Python, C++, Airflow, Spark, Kafka, RabbitMQ, 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

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**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

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Python, C++, SQL, git, docker, Airflow, Message Queue, Kubernetes, celery, PostgreSQL, GraphQL

## PUBLICATIONS

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- **[Dressing for Attention: Outfit Based Fashion Popularity Prediction](#)**

Accepted by *IEEE International Conference on Image Processing 2019 (oral)*