

Zichen Jiang

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Work Experiences

Juniper Square, Toronto | Senior Data Engineer | Dec 2024 – Present

- Designed, developed, and scaled a near-real-time **Kafka/Flink/Redshift** pipeline supporting 4 upstream domain teams and processing **200k+** messages/day with **4-minute** freshness, enabling near-real-time customer-facing analytics
- Defined technical direction for data streaming system, aligning architecture decisions across multiple teams to improve reliability, scalability, and operational robustness
- Drove architectural improvements across the data platform, influencing design decisions, leading incident reviews, and partnering with cross-functional teams on system migrations

Juniper Square, Toronto | Data Engineer | Jun 2022 – Dec 2024

- Built a client onboarding pipeline that increased onboarding efficiency by **8x**
- Scaled an Airflow-based ETL pipeline from supporting **30 to 360** customers, enabling ARR growth from **\$300k to \$74M** by improving runtime, capacity, and reliability
- Mentored junior engineers through design reviews, onboarding support, and guidance on coding standards and best practices

VTS, Toronto | Software Developer | Aug 2021 – May 2022

- Built a distributed data pipeline using **Scala**, **Spark**, and **Snowflake**
- Reduced a major Spark job from 2 weeks to 15 hours through optimized parallelization
- Delivered a data publishing pipeline from Snowflake to Elasticsearch backed by gRPC services written in Go

Indellient, Toronto | Full Stack Developer | May 2018 – Jul 2021

- Developed and optimized an hourly **Java/Python Apache Airflow** pipeline, achieving a **6x** runtime improvement through parallelization and efficient libraries
- Built and maintained CI/CD workflows using **TravisCI**, **Docker**, and **Kubernetes**, enabling automated code release and deployment
- Mentored developers and provided documentation for ongoing project maintenance

Education

McMaster University | Bachelor of Applied Science, Computer Science | 2013 – 2018

- GPA: 3.7/4.0 (Summa Cum Laude)
- President of the University Hackathon Club (DeltaHacks)

Projects

[EthWaterloo | Rubber Hose | Nov 2019](#)

- Winner of best use of Enigma/Secret network
- Built a multi-level security application protecting crypto wallets from unauthorized access
- Integrated a React UI with Enigma secret contracts written in Rust

Volunteer Experiences

Glen Eden, Toronto | Ski Patrol | Sept 2025 – Present

DeltaHacks, Toronto | Alumni Advisor | Mar 2023 – Present