# Zichen Jiang

Toronto, Canada | [linkedin.com/in/zichenj](linkedin.com/in/zichenj) | [github.com/alicj](github.com/alicj)

## 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 timely 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**, supporting business growth and operational scale
- Scaled an Airflow pipeline from supporting **30** to **360** customers, enabling ARR growth from **$500k** to **$74M** by improving runtime, capacity, and reliability
- Mentored junior engineers via design reviews, onboarding support, and guidance on coding standards and best practices

VTS, Toronto | Software Developer, Data | Aug 2021 – May 2022
- Built a distributed data pipeline using **Scala**, **Spark**, and **Snowflake**
- Reduced a major Spark job from several days 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, Data | May 2018 – Jul 2021
- Built and optimized Java/Python/SQL Airflow pipelines, achieving **6x** faster runtime
- Built and maintained CI/CD workflows using **TravisCI**/**Docker**/**Kubernetes**, enabling automated code release and deployment
- Mentored developers and produced maintenance documentation

## 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](EthWaterloo)
- 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