

Zichen Jiang

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Work Experiences

Juniper Square, Toronto | Data Engineer | Jun 2022 – Present

- Maintained and developed ETL pipelines using **Python**, **SQL**, and **Apache Airflow**
- Design and implemented an onboarding pipeline, reducing onboarding time from days to hours and saving hundreds of engineering hours per year
- Engineered improvements to the ETL pipeline, enabling it to handle tenfold increase in customer count without sacrificing processing time
- Designed and implemented an onboarding program for new engineers, covering technical tools, team processes, and coding standards

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

- Developed ETL pipelines using **Scala**, **Spark**, and **Snowflake**
- Utilized Spark's parallelization to shorten task runtime from 2 weeks to 15 hours
- Published data from Snowflake to Elasticsearch and exposed it with **gRPC** services in **Go**

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

- Developed an hourly running pipeline with **Java**, **Python**, and **Apache Airflow**
- Integrated CI/CD pipeline using **TravisCI**, **Docker**, and **Kubernetes**
- Optimized pipeline using multi-threading and efficient libraries, decreasing runtime by **6 times**
- Developed and documented REST API using **Java Spring Framework**
- Trained and supported numerous developers to maintain and develop existing projects

Indellient, Toronto | Software Developer Intern | May 2016 – Aug 2017

- Designed a Data Warehouse and visualized data using **IBM Cognos BI**
- Upgraded **IBM Cognos Analytics** resulting in **10%** faster report generation
- Developed file system integration with Google Drive and SharePoint
- Optimized **AngularJS** front-end to improve memory usage by **10%**
- Integrated SAML SSO and reduced installation time by **80%**

Education

Bachelor of Applied Science, Computer Science | 2013 – 2018

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

Projects

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

- Winner of best use of **Enigma/Secret** network
- Developed an application with multilevel security to protect crypto wallet from unauthorized access
- Integrated **React** app with Enigma secret contract written in **Rust**