

Qijin Xu

qxjack@gmail.com | +1 (250)812-3238

EDUCATION

YORK UNIVERSITY, TORONTO

B.Sc IN COMPUTER SCIENCE

SPECIALIZED HONOR

2017-2020

GPA: 3.9/4.0

LINKS

Github:// [Freedom-Jack](#)

Linkedin:// [Qijin Xu](#)

CERTIFICATES

Azure Solutions Architect Expert

Project Management Professional (PMP)

AREAS OF EXPERTISE

SYSTEM DESIGN & ARCHITECTURE

- Microservices • Load balancing
- Distributed systems
- Event-driven architecture

PROGRAMMING

- Python • Go • Java • C • C#

DEVOPS, CLOUD, & CI/CD

Containerization:

- Docker • Kubernetes

Cloud Platforms:

- Azure, • AWS • GCP

CI/CD Tools:

- Jenkins • GitHub Actions • Azure Pipelines

Infrastructure as Code (IaC):

- Azure Resource Manager • Bicep
- Terraform • AWS CloudFormation

DATABASES & BIG DATA

SQL Databases:

- MySQL • PostgreSQL • SQL Server

Distributed Computing:

- Apache Spark • MapReduce
- Kafka

Data Warehousing / Query:

- Hive • BigQuery

MACHINE LEARNING & DATA SCIENCE

ML Frameworks:

- PyTorch • TensorFlow

WEB & FRONTEND

- HTML • CSS • JavaScript •
- React • Vue • TypeScript

EXPERIENCE

CGI

| LEAD DE & SDE, SENIOR CONSULTANT

January 2025 – Current | Toronto, ON

- Great things are happening

| LEAD DE & SDE, CONSULTANT

August 2023 – December 2024 | Toronto, ON

- **AI-Chatbot with 525% ROI:** Lead the design and development of a corporate-level Retrieval-Augmented Generation (RAG) chatbot using Azure and AWS, automating customer service, resulting in **525% ROI**.
- **Product Page:** [CGI's multi-language AI-driven chatbot for insurance](#)
- **Article:** [AI chatbots for insurance are transforming customer service](#)

| DATA ENGINEER, CONSULTANT

August 2021 – July 2023 | Toronto, ON

- Manage Canada's **largest automobile insurance databases**.
- **Designed 22+ databases** for accounting, finance, and client reporting.
- Built a loss ratio score with Machine Learning, improving fraud detection accuracy by **321%** compared to a client (one of the **top 5 banks**).

ELDER LABORATORY | RESEARCH ASSISTANT

November 2018 – August 2021 | Toronto, ON

Link: <https://www.elderlab.yorku.ca> <https://www.attentivevision.com/>

- **Automated Sports Video Analysis:** Contributed to the AttentiveVision project, using PyTorch and TensorFlow to build Computer Vision and ML-based pipelines for hockey game footage.
- **Smooth Pursuit System:** Engineered a real-time tracking mechanism to capture precise player movements, streamlining performance analytics for coaches and analysts.
- **Action Spotting Pipeline:** Developed an automated annotation system for hockey events, help with manual labeling overhead and data reliability.

NASCENT DIGITAL | FULLSTACK DEVELOPER INTERN

May 2019 – August 2019 | Toronto, ON

Link: <https://nascentdigital.com/>

- **Front - End and Back-End Integration:** Delivered end-to-end features using React, JavaScript/TypeScript, and internal toolkits.
- **Company Homepage Architecture Redesign:** Implemented a new architecture that focused on high performance, scalability, and user engagement metrics.
- **Product Page Launch for Telus:** Collaborated with cross-functional teams to release product pages, maintaining consistent design standards and efficient deployment workflows
- **Visual Regression Testing:** Established an automated testing framework, reducing manual QA efforts and accelerating the release cycle.

AWARDS

2017 Scholarship

2018 Scholarship

2019 Scholarship

2020 Accomplishment

2024 Award

York University Entry Scholarship

Lassonde School of Engineering Scholarship

Lassonde School of Engineering Scholarship

Graduated with First Class with Distinction

CGI Impact Award - Canada