

# Trevor J. Yao

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## Skills

C/C++ • Python • C# • Groovy • (P)SQL • JS • Scala • Bash  
AWS GLUE • Spark • Splunk • Docker • Kubernetes • Jenkins • Ansible • git  
Unit & Load Testing • Agile

## Experience

### Sun Life Financial Waterloo, Canada

May 2021 -  
Aug 2021

Data & Analytics Engineer

- Developed a custom audio ingestion and transformation application using multi-threaded Python services hosted in [Kubernetes](#) pods, handling 3 TB/month of audio & metadata, using [Kafka](#) Topics & [S3](#) Buckets as the single source of truth.
- Facilitated [Spark](#) audio transcription [machine learning](#) modules.
- Created load testing CI/CD pipelines targeting Big Data applications and engineered [Splunk](#) micro-services for automated service logging and management.

### Sun Life Financial Toronto, Canada

Jan 2021 -  
Apr 2021

DevOps Engineer

- Led architecture and development of generalized [Jenkins](#)-based [SQL/PostgreSQL](#) pipeline targeting multiple environments, used by all DB development teams, reducing existing testing procedures by over 30 minutes per environment — pioneering department standards for pipelines focused on simplicity and speed.
- Created automated JIRA, Microsoft Teams, and ServiceNow integration for new & legacy tasks, bringing procedures inline with Agile methodology.

### CIK Telecom Toronto, Canada

May 2020 -  
Aug 2020

Software Developer

- Lead full-stack developer of an International job application and management web app using the [ASP.NET Core](#) Framework, increasing recruitment spread by 25%.
- Wrote [Transact-SQL](#) scripts for managing company data, including sensitive data of over 300 000 customers.
- Developed a new company web app and [REST API](#) for managing inventory based on previous order trends using [multivariate regression](#) analysis.

## Projects

### vm

Dec 2020

Lightweight vim-like Text Editor

- vim alternative with 60% reduction in memory usage. Written in standard [C++](#) with self-written libraries, designed for portable use on any low powered \*NIX embedded systems.
- Supports all common vim commands, with C/C++ syntax highlighting, unlimited undo, nested multipliers and movements, and text searching all supported.

## Education

### University of Waterloo

Sep 2019 -  
May 2024

Candidate for Honours Bachelor of Computer Science & Pure Mathematics minor (2B)

- Dean's Honours List - Faculty of Mathematics (All Terms).
- 92% Major Average (4.0 GPA).
- Related coursework: CS 246E - Enriched OOP Programming ([C++](#) Abstraction): 94%.