





# RICHARD LIU

## CONTACT

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## TECHNICAL SKILLS

Computer Networks  
Git Version Control  
Leveraging AI Tools to enhance efficiency  
Unit, Integration, End to End Testing  
Object Oriented Programming  
Data Handling and Processing  
Containerization & Kubernetes  
API/Endpoint Calling and Handling

## CODING LANGUAGES

Java, HTML, CSS C, C#, C++, Python,  
SQL, MS Workflow Expression, Pytorch

## SOFTWARE

Github	Power Platform
VSCode	MS Visio
Jenkins	Swagger & Postman
Azure & Oracle DB	SonarQube
Microsoft Office	Jira & Confluence

## SOFT SKILLS

Innovation and Automation Mindset  
Agile Mindset  
Strong Time Management Skills  
Communication and Cooperative Skills  
Critical and Creative thinker  
Documentation Skills  
Rapid Learner of Unfamiliar Tech  
Presentation and Demoing Skills  
Analytical and Problem-Solving Skills

## EDUCATION

**Bachelor of Applied Science in Computer Engineering + PEY**  
**Minor in Artificial Intelligence**

### University of Toronto

2021 - 2026

#### Awards and Honours:

Dean's List, Edward S Admission  
Scholarship

## EXPERIENCE

### Software Engineer

Ontario Teachers' Pension Plan (OTPP) May 2024 - August 2025

- Built an automated K1 tax form processor using Microsoft Document Intelligence, Power Automate, and .NET C# APIs, eliminating manual entry and enabling AI-based accuracy validation
- Refactored an over engineered system into a Python microservice, reducing failure points from 3 platforms to 1 and resolving critical timeout issues, showcasing strategic foresight
- Automated Power BI credential rotation with a Python solution using Power BI REST APIs, CyberArk, and RSA-OAEP encryption, cutting significant manual effort
- Created resilient Power Automate flows for mailbox monitoring, Oracle DB integration, and text parsing with Azure Workflow Expressions and Regex
- Conducted stress testing and performance analysis on high-volume email services using Python scripting and log analysis

### IT Administrator/Data Analyst

Toronto Regional Real Estate Board May 2023 - August 2023

- Created SQL views and stored procedures to improve usability and efficiency of the company's database
- Helped maintain servers, switches, and routers to ensure consistency with the company's network structure

### RSX Software Developer

University of Toronto September 2022 - March 2023

### IT Helpdesk Assistant

Woodgreen Community Services May 2022 - August 2022

## PERSONAL PROJECTS

### Portfolio Website

May 2025 - August 2025

Designed and developed a responsive personal website using HTML and CSS, featuring a clean, professional layout with Flexbox, card components, and smooth transitions for an intuitive user experience.

### GIS Maps Project

January 2023 - April 2023

Collaborated in a team to build a comprehensive GIS (Geographic Information System) from scratch. Used the Open Street Maps API to acquire map data and employed various algorithms and programming techniques to design the graphical user interface (GUI) and implement pathfinding capabilities.

### FindWho Deep Learning Project

May 2023 - August 2023

Created a product called FindWho that uses Deep Learning to determine a persons' characteristics in real time given video input. Used Pytorch to implement CNN models, training functions/labels, and to process data.