RICHARD LIU

CONTACT

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Toronto, ON M4A 2K5

github.com/Rucherd

TECHNICAL SKILLS

Computer Networks
Git Version Control
Working with AI
Stress Testing, Unit Testing, Debugging
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

SOFTWARE

Microsoft Office	Power Automate
VSCode	MS Visio
Azure DB	Swagger
Oracle DB	MatLab
Github	Jira & Confluence

SOFT SKILLS

Innovation and Automation Mindset
Strong Time Management Skills
Communication and Cooperative Skills
Critical and Creative thinker
Documentation Skills
Agile Mindset
Rapid Learner of Unfamiliar Tech
Presentation and Demoing Skills
Optimistic and Resilient

EDUCATION

Bachelor of Applied Science in Computer Engineering + PEY

University of Toronto

2021 - 2026

Awards and Honours:
Dean's List, Edward S Admission Scholarship

EXPERIENCE

Product 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 - July 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.

Google 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.