

# Karan Randhawa

Ambitious and self-motivated Software Developer with a passion to discover new ways of using acquired knowledge and skills to build quality and effective solutions, by leveraging innovative technology paired with a wide array of traits developed with experience.

Waterloo, ON

[karanrandhawa.page](#)

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## Experience

**Senior Software Developer** at J-SAS Inc.

*January 2018 – Present*

- Led the development and maintenance of several enterprise software solutions, including a Subscriber Lifecycle Management portal with an application user base of over 80,000 and an active subscriber base of over 40,000 subscribers globally.
- Designed and developed an Identity and Access Management (IAM) system based on IdentityServer4 and OpenID Connect frameworks, to allow for a secure and seamless Single Sign-On experience for customers between various applications within the client's business ecosystem.
- Identified the need for, then charted and executed a plan to develop a microservices architecture based on ASP.NET Core and Docker, to support and expedite the development of an MVP subscriber onboarding solution.
- Spearheaded the design and implementation of a mass user upload feature within the subscriber portal application to enable customers to import thousands of their application users from other systems within minutes – saving the operations teams several weeks of manual effort to import the same users.

**Software Development Research Assistant** at Centre for Development of Open Technology (CDOT) – Applied Research, Seneca College

*May 2017 – December 2017*

- Researched, designed, and developed a Cyber Intelligence Data-Collection Agent that employs a communication system built with the AMQP transmission protocol, to monitor a network system for potential internal and external threats, while reporting local resource utilization statistics to a remote Central Server.
- Deployed a range of batches for the data collection agents to a client subsystem infrastructure to stress test as well as monitor the performance of the agent and the communication system in a real-world environment.

## Involvement

**Student Mentor In Life and Education (SMILE)** at Seneca College, Toronto, ON

*September 2015 – August 2016*

- Mentored a group of first-semester students to guide them through various challenges at and outside of school; to help them experience a smooth transition into college education.

## Education

**Honours, Bachelor of Technology – Software Development**

*January 2015 – September 2018*

Seneca College – Toronto, ON  
(GPA: 3.7 / 4.0 Cumulative)

## Skills

- C#, C++
- .NET Framework, ASP.NET Core
- AngularJS, JavaScript, TypeScript
- MySQL, SQL Server
- Bash Scripting, Linux Shell Scripting

## Coursework

**Data Communication**

**Networks**

*January 2017*

Seneca College, Toronto, ON

- C++
- Multi-Threaded Programming
- Network Transmission Protocols

## Certifications

**Microsoft Certified for Azure AI Fundamentals**

*August 2021*

University of Calgary,  
Calgary, AB