

Karan Randhawa

An ambitious and self-motivated Senior 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 honed with six years of experience.

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Waterloo, ON

Experience

Senior Software Developer (*February 2022 – Present*) at J-SAS Inc.
Software Developer (*January 2018 – February 2022*)

- Revitalized development and maintenance of a suite of enterprise software solutions. Notably, the agile development of a scalable B2B multitenant Subscriber Lifecycle Management portal, serving 80,000+ users and 40,000+ companies globally.
- Orchestrated and contributed to the development of an Identity and Access Management (IAM) system implementing IdentityServer4 and OpenID Connect, to allow for a secure and seamless Single Sign-On experience for customers between various applications within the client's business ecosystem.
- Spearheaded the architectural design and implementation of a suite of RESTful Web APIs hosted over fortified public endpoints. These pivotal components were meticulously crafted to facilitate the operations of several partner applications and data-polling client subsystems, while ensuring optimal security and reliability throughout the business ecosystem.
- Recognized the need for, then led the development of a microservices architecture using ASP.NET Core and Docker, to support and speed up the launch of an MVP subscriber onboarding solution.

Software Development Research Assistant (*May 2017 – December 2017*) at Centre for Development of Open Technology (CDOT) – Applied Research, Seneca College

- Researched, designed, and developed a Cyber Intelligence Data-Collection Agent utilizing WPF and WinForms. Employed the AMQP transmission protocol to monitor network systems for potential threats, while reporting resource utilization statistics to a remote Central Server.
- Deployed agent clusters to client subsystem infrastructure, conducting performance monitoring and stress testing. Evaluated communication system durability in real-world environments.

Involvement

Student Mentor In Life and Education (SMILE) at Seneca College
September 2015 – August 2016

- Mentored several junior students across three semesters, guiding them through 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++, Java
- .NET Framework, ASP.NET Core, RESTful APIs
- Angular, TypeScript, JavaScript, Node.js
- Microsoft SQL Server, MySQL
- Atlassian Jira, Azure DevOps, Agile Software Development
- OpenCV, Computer Vision
- AWS, Azure Cloud
- Elastic Stack (ELK)
- Bash, Linux Shell Scripting

Coursework

Data Communication Networks

Seneca College, Toronto, ON

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

Certifications

Microsoft Certified for Azure AI Fundamentals

University of Calgary, Calgary, AB