

# KARAN RANDHAWA

Waterloo, ON

[Phone](#) | [Email](#) | [GitHub](#) | [LinkedIn](#)

[karan-randhawa.com](https://karan-randhawa.com)

Senior Software Developer with **8 years of experience** designing and delivering scalable, cloud-native applications using various backend frameworks in **C#**, and modern web technologies. Proven track record of leading **full-cycle development** from architecture to deployment in fast-paced, cross-functional teams. Passionate about clean code, **CI/CD automation**, and mentoring developers to raise team velocity. Currently building Gitscuit, an AI-powered GitHub insights tool, while continuously expanding frontend expertise in React.

## TECHNICAL SKILLS

**Backend:** ASP.NET Core / MVC / Framework in C#, C++, Python, Node.js | **Frontend:** Angular, TypeScript, JavaScript, React  
**Cloud:** Azure Cloud & DevOps, AWS, CI/CD | **Architecture:** Microservices, RESTful APIs, IdentityServer4, Event-Driven Systems  
**Data & Messaging:** MySQL, Microsoft SQL Server, MongoDB, Elasticsearch, Redis, RabbitMQ | **Tools:** Git, Postman, Docker, Kubernetes

## EXPERIENCE

### SENIOR SOFTWARE DEVELOPER

J-SAS Inc. | Greater Toronto Area | FEBRUARY 2022 – FEBRUARY 2025

- Led the agile development of a B2B multi-tenant Subscriber Lifecycle Management portal, scaling to **100,000+ users** across **40,000+ companies**, while mentoring the team on building **SQLi-safe** and **AODA** compliant systems.
- Architected a secure **Identity & Access Management (IAM)** system with **IdentityServer4** & **OpenID Connect**, enabling **SSO** across multiple client applications and coaching developers on **Zero Trust Principles**.
- Drove **DevOps** transition for a **Compliance-as-a-Service** product, cutting deployment time & costs **by 40%** and ensuring **98% uptime**, while upskilling the team on CI/CD.
- Accelerated customer onboarding by **6 weeks** with a **microservices architecture** in **ASP.NET Core & Docker**, guiding the team in moving from monolithic architectures to leveraging microservices.

### SOFTWARE DEVELOPER

J-SAS Inc. | Greater Toronto Area  
SEPTEMBER 2017 – FEBRUARY 2022

- Built and optimized **ASP.NET Core RESTful APIs** powering authentication, authorization, and SSO.
- Engineered a **mass user upload utility** in **.NET Framework** automating up to **95%** of the onboarding workload.
- Enhanced front-end accessibility by applying **AODA** principles and ensuring **WCAG 2.0** compliance to an **Angular** UI.

### SOFTWARE DEVELOPER, RESEARCH

CDOT, Applied Research, Seneca Polytechnic | Toronto, ON  
MAY 2017 – DECEMBER 2017

- Developed a **Cyber Intelligence Agent** using **RabbitMQ & AMQP** for real-time threat detection, improving response times by **30%**.
- Simulated high-load conditions via agent clusters, **doubling** message reliability and uncovering performance bottlenecks.
- Built a plugin framework for the agent, **halving development time** for new threat modules.

## EDUCATION

### HONOURS, BACHELOR OF TECHNOLOGY – SOFTWARE DEVELOPMENT

Seneca Polytechnic | Toronto, ON | OCTOBER 2018 | GPA: 3.8 / 4.0  
Coursework: Data Structures & Algorithms, Web Programming on Windows

## PROJECTS

**Gitscuit:** AI-powered GitHub insights and automation  
Status: In-Progress | .NET Core | FastAPI | OpenAI | GitHub API

**FaceBot:** ML-equipped human face detection and recognition  
Status: Complete | .NET Framework | OpenCV | Haar Cascades