

# Ben Sykes

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## Summary

A highly effective and results oriented Software Engineer / Cloud specialist with over 5 years of industry experience designing, developing and implementing complex software solutions.

## Work Experience

Ottawa ON.  
May 2024 -  
Present

### **Shared Services Canada (SSC/SPC)** - Technical Advisor

#### GC Private Cloud (Release 1.0)

- A founding member of the GC Private Cloud project at Shared Services Canada, driving cross-functional collaboration and spearheading many of the teams technical initiatives
- Implemented a centralized SSH CA service to support scalable and secure authentication to servers in the Private Cloud control-plane
- Designed and implemented foundational service architecture to support critical cloud services and provide internal NTP and DNS to clients in our Private Cloud environment
- Streamlined metrics monitoring and log aggregation using open-source technologies to ensure high visibility for the entire platform
- Participated as a member of the IPv6 Architecture working group to help bring IPv6 to Private Cloud and the broader GoC

Ottawa ON.  
Jan 2023 -  
May 2024

### **Statistics Canada** - Technical Advisor - Cloud Native Solutions

#### Cloud-Native Platform 2.0 (CNP2.0)

- Served as a technical lead for SIG-Networking and SIG-Community
- Delivered a custom BGP daemon in GO that resulted in significant improvements to the observability, security and operability of our in-cluster and corporate networks
- Implemented a custom Kubernetes operator to optimize autoscaling in StatCan's CNP2.0 AKS environment using Cilium and Azure BYOCNI
- Lead numerous initiatives for the development of new policies around code review guidelines, procedures and automation

Ottawa ON.  
Jan 2020 -  
Jan 2023

### **Statistics Canada** - Cloud DevOps Specialist / Migration Manager

#### Workload Migration

- Provided consultation services to clients to assist in the modernization of legacy solutions for a cloud environment
- Lead multiple migration projects end-to-end from on-premise to the StatCan Azure Cloud Environment
- Designed and implemented continuous integration pipelines to support agile workflows in adjacent development teams throughout the organization
- Managed a fleet of over 500 linux servers running production workloads

## Additional Work Experience

- Burlington, ON.  
January 2012 - February 2016
- Sykes Software Development** - Freelance Software Developer  
**Hudson Restoration - Web Development** (<https://hudsonrestoration.com>)
- Provided consultation services on existing website
  - Developed and presented numerous prototypes for the client
  - Finalized a completely new front-end for Hudson Restoration

## Education & Others

- Oakville Ontario  
Jan 2017 - April 2022
- Sheridan College** - Honours Bachelor in Computer Science (H.BACS)
- GPA 3.85 / 4

## Skills & Interests

- IT Skills Enterprise Architecture · Software Development · Cloud · DevOps · Kubernetes · Private Cloud
- Homelabbing Constructed a fully virtualized homelab environment on a 42U Enterprise-grade server rack consisting of XCP-NG, multiple Kubernetes clusters (bare-metal + virtual), secret management, automated OS-level patching, monitoring and a full deployment of Gitlab including Gitlab CI/CD
- Open Source Development Key contributor to numerous open source projects under the StatCan umbrella and contributed bug fixes to the Openstack project as part of my work on the GC Private Cloud project at Shared Services Canada