

# Stephen Johnston

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## Experience

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2023 – present

### **Software Developer, Creator, *Herald*** [🔗](#)

Herald is an open-source observability solution built on the ELK stack.

- Engineered the automatic provisioning and deployment of a data pipeline for the collection, processing, storage, and visualization of logs, traces, and metrics data
- Created CLI tool to facilitate set-up, configuration, deployment, and tear-down of the ELK stack on AWS
- Automated deployment of the ELK stack to the cloud using AWS CDK
- Secured communication among infrastructure components using TLS encryption
- Containerized components of pipeline infrastructure deployed with AWS ECS
- Engineered service discovery among infrastructure components using AWS Cloud Map
- Implemented auto-scaling of Elasticsearch cluster
- Authored comprehensive case study [🔗](#) discussing the use case, design decisions, and implementation challenges experienced in building Herald
- Collaborated with a remote team of 4 developers across Canada and the U.S. using agile workflow

2019 – 2023

### **Full-Stack Web Developer, *Self-employed***

- PanicBin: A real-time tool for inspecting and receiving webhooks (Node.js, Express, MongoDB, PostgreSQL, React)
- e-Cart: An e-commerce shopping cart (Node.js, Express, MongoDB, React)
- Todo Manager: A todo-management app (Node.js, Express, JavaScript, Handlebars)

2022

### **Farm Worker, *Maple Bloom Farm***

Aided in cultivating, planting, harvesting, and packaging organic produce for a Community Supported Agriculture (CSA) program.

2019 – 2020

### **School Bus Driver, *Switzer-Carty Transportation***

## Skills

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### **Languages**

JavaScript, Ruby,  
Go, SQL,  
HTML, CSS

### **Frameworks**

Express, React,  
Handlebars,  
jQuery, Sinatra

### **Technologies**

Node.js, Git/Github,  
Docker, PostgreSQL,  
MongoDB, ELK stack,  
HTTP, REST APIs,  
Nginx, Bash, Linux

### **Cloud**

CDK, IAM, CloudMap,  
Lambda, EC2, ECS,  
EFS, CloudWatch,  
Fargate

## Education

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2011 – 2016

### **Saint Mary's University,**

*Bachelor of Commerce (Bcom), Marketing*

Member of the Men's Varsity Hockey Team

Halifax, Canada

## Notable Achievements

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2008

### **NHL Draftee, *Detroit Red Wings*** [🔗](#)