

# Stephen Johnston

Guelph, Canada | sdjohnston1990@gmail.com | stephendjohnston.github.io

## TECHNICAL SKILLS

---

### Languages & Frameworks

JavaScript, Ruby, Go, SQL, React, Express, Sinatra, Handlebars, jQuery, Jest, HTML/CSS

### Cloud

AWS (CDK, EC2, ECS, EFS, IAM, Lambda, VPC, CloudMap, Fargate), Digital Ocean Droplets, Heroku, Fly.io

### Other Technologies

Node.js, Git/Github, Docker, Nginx, MongoDB, RESTful APIs, OOP, Linux, PostgreSQL, Webhooks


## EXPERIENCE

---

2023 – present

### Software Developer, Creator, Herald (<https://herald-app.github.io/>)

Herald is an observability solution that allows software developers to conveniently collect and explore telemetry data, including logs, traces, and metrics, through a single, user-friendly interface.

- Engineered the automatic provisioning and deployment of an observability pipeline, condensing a complex multi-application deployment (Elasticsearch, Logstash, Kibana, Fleet Server) into just a few simple steps.
- Designed and implemented a distributed architecture using AWS Cloud Development Kit (CDK)
- Abstracted application components and services into custom CDK constructs for deployment on AWS resources
- Reduced pipeline congestion and potential data loss by architecting a multi-cluster, autoscaling Elasticsearch service with automated node discovery
- Implemented infrastructure for automated certificate generation for enabling TLS encryption across all application services
- Containerized applications and solved complex configuration issues by building custom Docker images
- Created a CLI to facilitate set-up, configuration, deployment, and tear-down of the Herald application
- Authored comprehensive case study discussing the use case, design decisions, and implementation challenges of building Herald (<https://herald-app.github.io/>) 
- Collaborated with a remote team of 4 developers across 3 time zones using an agile workflow

2019 – 2023

### Software Developer, Self-employed

Developed open-source web applications with technologies such as JavaScript, Node.js, Ruby, Sinatra, PostgreSQL, MongoDB, Jest, React, CSS, and HTML. Sample projects include:

- PanicBin - a real-time tool for receiving and monitoring webhooks (DigitalOcean Droplet, Express, Material UI, MongoDB, Nginx, Node.js, PM2, PostgreSQL, React)
- BuyPal - an e-commerce shopping-cart app (Node.js, Express, MongoDB, React)
- Taskify - productivity app for tracking and managing habits and tasks (Node.js, Express, JavaScript, Handlebars)

## EDUCATION

---

2019 – 2023

### Software Engineering & Web Development, Launch School

A multi-year mastery-based education program focused on the fundamentals of software engineering.

2011 – 2016

### Bachelor of Commerce, Marketing, Saint Mary's University

Completed while competing as a member of the Men's Varsity Hockey Team.

## NOTABLE ACHIEVEMENTS

---

2008

NHL Draftee, Detroit Red Wings