

Stephen Johnston

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PROFILE

I am a full-stack software developer with a passion for collaborating to solve challenging problems and an enthusiasm for continuous learning and improvement. I have multiple years of experience in the JavaScript and Ruby ecosystems, as well as experience with various frameworks and AWS.

EXPERIENCE

Software Developer, Co-Creator, Herald [↗](#) 2023 – present

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 a data pipeline for the collection, processing, storage, and visualization of logs, traces, and metrics data
- Created a CLI tool to facilitate set-up, configuration, deployment, and tear-down of the ELK stack—Elasticsearch, Logstash, and Kibana—on AWS
- Automated cloud deployment of multiple Elasticsearch and Logstash clusters, and a single node of Kibana using AWS CDK
- Architected the generation and storage of certificates to ensure secure communication of pipeline components using TLS encryption
- Containerized components of pipeline infrastructure with appropriate dependencies and runtime environments using AWS ECS
- Engineered service discovery using AWS Cloud Map to ensure successful communication among infrastructure components
- Implemented auto-scaling of Elasticsearch cluster based on a CPU-utilization target
- Authored comprehensive case study discussing the use case, design decisions, and implementation challenges experienced when building Herald
- Collaborated with a remote team of 4 developers across Canada and the U.S. using agile workflow

Software Developer, Self-employed 2019 – 2023

- PanicBin - tool for inspecting and debugging webhooks (Node.js, Express, MongoDB, PostgreSQL, React)
- BuyPal - 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)

SKILLS

Languages & Frameworks

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

Other Technologies

Node.js, Git/Github, Docker, Nginx, MongoDB, HTTP, Bash, RESTful APIs, Linux, postgresSQL, ELK stack (Elasticsearch, Logstash, Kibana)

Cloud

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

EDUCATION

Saint Mary's University, Bachelor of Commerce (Bcom), Marketing

2011 – 2016

Member of the Men's Varsity Hockey Team

NOTABLE ACHIEVEMENTS

NHL Draftee, Detroit Red Wings [↗](#)

2008