

# 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.

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## EXPERIENCE

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

Herald is an open source application that simplifies deployment of a full observability solution for logs, traces and metrics.

- 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 [↗](#)
- Collaborated with a remote team of 4 developers across 3 time zones using an 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)

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## SKILLS

### Languages & Frameworks

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

### Other Technologies

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

### Cloud

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

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## EDUCATION

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

2011 – 2016

Member of the Men's Varsity Hockey Team

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## NOTABLE ACHIEVEMENTS

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

2008