# Stephen Johnston

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## TECHNICAL SKILLS

**Languages & Frameworks**
*JavaScript, Ruby, Go, SQL, React, Express, 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, REST APIs, OOP, Linux, PostgreSQL, Webhooks, Elasticsearch*

## 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 a data pipeline for the collection, processing, storage, and visualization of logs, traces, and metrics data, saving developers hundreds of hours in troubleshooting/debugging time
- Created CLI tool to facilitate set-up, configuration, deployment, and tear-down of the ELK stack —Elasticsearch, Logstash, and Kibana—on AWS, condensing a complex multi-application deployment into a few simple steps
- 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 (herald-app.github.io 🔗 ) discussing the use case, design decisions, and implementation challenges experienced when building Herald
- Collaborated with a remote team of 4 developers across multiple timezones using agile workflow

2019 – 2023     **Software Developer,** *Self-employed*
A few of the projects & technologies used during this time:
- 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

**Bachelor of Commerce, Marketing,** *Saint Mary's University*
Completed while competing as a member of the Men's Varsity Hockey Team.

**Software Engineering & Web Development,** *Launch School* 🔗
A multi-year mastery-based education program focused on the fundamentals of software engineering.

## NOTABLE ACHIEVEMENTS

**NHL Draftee,** *Detroit Red Wings*