Stephen Johnston

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TECHNICAL SKILLS

Languages & Frameworks	Cloud	Other Technologies
JavaScript, Ruby, Go, SQL, React, Express, Sinatra, Handlebars, jQuery, Jest, HTML/CSS	AWS (CDK, EC2, ECS, EFS, IAM, Lambda, VPC, CloudMap, Fargate), Digital Ocean Droplets, Heroku, Fly.io	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*