



Matthew Johnston

Software Developer

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Experience

- 2023 – present **Software Developer, Creator, Herald** 
- Herald is an open-source observability solution built on the ELK stack.*
- Engineered the automatic provisioning and deployment of a data pipeline for the collection, processing, storage, and visualization of logs, traces, and metrics data
 - Created CLI tool to facilitate set-up, configuration, deployment, and tear-down of the ELK stack on AWS
 - Automated deployment of the ELK stack to the cloud using AWS CDK
 - Secured communication among infrastructure components using TLS encryption
 - Containerized components of pipeline infrastructure deployed with AWS ECS
 - Engineered service discovery among components using AWS Cloud Map
 - Implemented auto-scaling of Elasticsearch cluster
 - 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
- 2019 – 2023 **Software Developer, Self-Employed**
- A few of the projects & technologies used during this time:
- PanicBin: an application for receiving and debugging webhooks (Node, Express, MongoDB, PostgreSQL, React)
 - Shopping Cart: a simple shopping-cart app (Node, Express, MongoDB, React)
 - Todo Manager: a todo-tracking app (Node, Express, JavaScript, Handlebars)
- 2015 – 2022 **Writer, Investopedia**
- Wrote finance- and economic-related articles.
- 2015 – 2021 **Adjunct Professor, St. Stephen's University**
- Taught Intro to Macroeconomics and Intro to Southeast Asian History.

Technical Skills

Back end

Node.js, Express, Ruby, Go,
PostgreSQL, MongoDB, REST APIs

Front end

JavaScript, React, HTML, CSS

Tooling

Git/GitHub, Docker, Digital Ocean,
AWS, Linux, Heroku, the ELK stack

Education

- 2012 – 2014 **M.A. Economics, The New School for Social Research**
- 2003 – 2007 **B.A. Interdisciplinary Studies, St. Stephen's University**