Matthew David Johnston

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Technical Skills

Languages/Frameworks
JavaScript, TypeScript, Ruby, Go, Python, Express, SQL, React, HTML5, CSS3, Jest

Other Technologies
Git/GitHub, Node.js, Docker, Nginx, PostgreSQL, MongoDB, RESTful APIs, Linux

Cloud
Digital Ocean Droplet, AWS (CDK, ECS, EC2, Fargate, Cloud Map, Lambda, and EFS), Heroku

Experience

2023 – present **Software Engineer, 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 (https://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 Engineer,** *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)
- SwiftCart: an e-commerce shopping-cart app (Node, Express, MongoDB, React)
- TaskMate: a task management app that allows users to build todo lists and track their tasks (Node, Express, JavaScript, Handlebars, HTML, CSS)

2015 – 2022 **Writer,** *Investopedia*
- Analyzed financial and economic markets and wrote related articles

2015 – 2021 **Adjunct Professor,** *St. Stephen's University*
- Taught classes on macroeconomics and Southeast Asian history to undergraduate students

Education

2012 – 2014 **M.A. Economics,** *The New School for Social Research*

2003 – 2007 **B.A. Interdisciplinary Studies,** *St. Stephen's University*