

# Kowshik Islam

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## LANGUAGES AND TECHNOLOGIES

### Languages & Frameworks

JavaScript, Node.js, Python, C#, TypeScript, Java, Express, React, SQL, HTML, CSS, Storybook

### Cloud Technologies

AWS CDK, ECS, EC2, Fargate, IAM, EFS, VPC, Lambda, CloudWatch, Cloud Map

### Other Technologies

PostgreSQL, MongoDB, SQLite, Git, Docker, RESTful APIs, Nginx, RabbitMQ, Elasticsearch, Kibana, Logstash

## EXPERIENCE

### Software Integration Engineer, OFGO Studio

02-2019 – Present | Vaughn, Canada


Led the transformation of the engineering process by designing and integrating software that modernized design methods, ensuring faster and error-free product design and manufacturing.

- Designed and implemented a comprehensive software system comprised of a Task Creator and a Distributed Task Scheduler that converts product orders into a set of tasks and allocates those tasks to worker nodes
- Leveraged a Low-Code tool to create modular design elements that automated and streamlined product engineering, reducing errors, shortening design time, and improving output quality.
- Created other applications using Python, VB.NET, and C# to automate data transformation, simplify parts replacements, etc., leading to improved operational efficiency.
- Tech Stack:** C#, Python, VB.NET, Elasticsearch, Kibana, RabbitMQ, Microsoft SQL Server Management Studio

### Software Engineer, Co-Creator, Herald

01-2023 – 10-2023 | Remote

Developed Herald, an open-source observability solution, using Elasticsearch, Logstash, Kibana, and AWS to monitor distributed applications in real-time.

- Streamlined deployment and tear-down of a complex application into a few steps using **AWS CDK** and **CLI**, achieving a 99% reduction in setup effort and enhancing user experience.
- Architected a **microservice** structure using AWS CDK, resulting in a scalable, flexible foundation for cloud components.
- Designed an autoscaling Elasticsearch service using the **ECS autoscaling** feature, ensuring continuous data ingestion and indexing during peak loads.
- Implemented automated **TLS encryption** across all services using AWS Lambda, EFS, and custom docker image, bolstering security across Herald's services.
- Resolved configuration challenges by crafting **Docker** images and containers, improving deployment flexibility.
- Authored a detailed case study, providing valuable developmental insights to the community (<https://herald-app.github.io>) .
- Tech Stack:** JavaScript, Elasticsearch, Logstash, Kibana, Fleet Server, AWS CDK, ECS, EC2, Fargate, IAM, EFS, VPC, Lambda, CloudWatch, Cloud Map

### Software Engineer, Open Source Projects

01-2021 – 12-2022 | Remote

- Panichbin: A real-time tool for receiving and monitoring webhooks (DigitalOcean Droplet, Express.js, Material UI, MongoDB, Nginx, Node.js, PM2, PostgreSQL, React).
- TaskMinder: A task management application developed using vanilla JavaScript for the frontend and Node.js/Express for the backend, designed to track and organize personal tasks efficiently.

## EDUCATION

### Software Engineering, Launch School

01-2021 – 12-2022 | Remote

**BEng Mechanical Engineering,**  
Toronto Metropolitan University 

2011 – 2016 | Toronto, Canada