

Kowshik Islam

 kowshikislam  kowshikislam.dev  kowshikislam8@gmail.com  Toronto, Canada

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 Engineer, Co-Creator, Herald

01-2023 – Present | 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 Integration Engineer, OFGO Studio

02-2019 – Present | Vaughn, Canada

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

- Designed a comprehensive software solution that translates customer orders into tasks, optimized task allocation through a Distributed Task Scheduler System, and ensured system reliability with robust logging tools.
- Leveraged a Low-Code tool to create modular design elements that automated and streamlined engineering tasks, 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:** VB.NET, C#, Python, Elasticsearch, Kibana, RabbitMQ, Microsoft SQL Server Management Studio

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