Kowshik Islam

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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 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) 2.
- Tech Stack: JavaScript, Elasticsearch, Logstash, Kibana, Fleet Server, AWS CDK, ECS, EC2, Fargate, IAM, EFS, VPC, Lambda, CloudWatch, Cloud Map

SOFTWARE ENGINEERING PROJECTS

- Panicbin: A 3-tier application combining React, Express.js, and Node.js, with Nginx as the web server. It features dual-database integration with MongoDB and PostgreSQL and utilizes RESTful API architecture.
- TaskMinder: A task management app using vanilla JavaScript (frontend) and Node.js/Express (backend), with user authentication and a RESTful API. It's designed for organizing and tracking personal tasks.

EDUCATION

Software Engineering, Launch School

01-2021 - 12-2022 | Remote

2011 – 2016 | Toronto, Canada