


# Aashish Balaji

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## Profile


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I'm a software developer based in Toronto and I co-created Triage , a Kafka consumer proxy built for polyglot microservice environments. I have multiple years of experience working with Go, JavaScript, Ruby, SQL, and am also versed in AWS and Docker.

## Technical Experience

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**Co-Creator, Software Engineer,** 2022 – present

Triage - (<https://team-triage.github.io/>) 

An open-source consumer proxy that solves head-of-line blocking caused by poison pills and non-uniform latency in message queues.

- Designed and implemented using Go, JavaScript, gRPC, Node.js, Docker, AWS ECS, and AWS Fargate with a remote team of engineers.
- Developed core components to leverage concurrency, enabling parallel consumption of messages for Kafka consumers.
- Designed components and database schema to aggregate data from incoming events and store corrupted messages in a dead letter store using Amazon's DynamoDB.
- Led implementation of a thin client library with a gRPC service for Triage to communicate with multiple downstream consumer applications.
- Implemented support for protocol buffers (protobuf) data format for increased throughput for message processing.
- Led containerization of Triage with Docker and automated the deployment process using AWS CDK, ECS, and Fargate for streamlined deployment to the cloud
- Built a command line interface tool in JavaScript with Node and published an npm package, to simplify configuration, deployment, and teardown of Triage in the cloud.
- Authored and edited a technical case study and produced a video presentation to showcase the design and architecture of Triage: <https://team-triage.github.io/case-study>

**Software Engineer, Open Source Projects** 2021 – 2022

- Request-Djinn - An HTTP webhook inspector built using a MERN stack and PostgreSQL, hosted on a DigitalOcean Droplet.
- Shopping Cart - A Docker containerized e-commerce app built with JS, Express, and MongoDB.
- Todo List - a task tracker built using Ruby, Sinatra, and PostgreSQL.

## Professional Experience

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**English Teacher** 2015 – 2021 | Tokyo, Japan

- Designed curricula for ESL and English immersion classes for Japanese high school students in grades 6-12.
- Taught grammar, writing, and debate classes in both solo and team-teaching styles.
- Trained and assisted newer English teachers with lesson planning, grading, and communication.

## Skills

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### Languages

Go, JavaScript, Typescript, SQL, Ruby, HTML/CSS

### Frameworks & Libraries

React, jQuery, Express.js, Node.js, Sinatra, Jest

### Databases & Cloud

PostgreSQL, MongoDB, AWS (EC2, ECS, IAM, CloudWatch, CloudFormation, Fargate), DigitalOcean, Heroku

### Tooling & Networking

Git, Docker, gRPC, HTTP/REST, Nginx, Linux, DOM

## Education

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**B.A. Psychology,** *Lakehead University*  2015

**Software Engineering,** *Launch School* 

Mastery-based full-stack software engineering program with a focus on programming fundamentals through written assessments, live coding interviews, and take-home projects.