

Kris Ingva

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TECHNICAL EXPERIENCE

Project Co-Founder, Software Engineer

2022 – present

Kuri

Kuri (kuri-dlq.github.io ⓘ) is an open-source, Dead-Letter Queue-as-a-Service (DLQaaS) for small distributed applications deployed on AWS infrastructure. Kuri automates the deployment of AWS infrastructure and provides a user interface to allow for extended DLQ functionality and observability.

- Designed, configured, and deployed AWS infrastructure to host Kuri functionality using AWS SDK (SQS, SNS, DynamoDB, Lambda, IAM, S3)
- Prototyped an alternative cloud architecture design using AWS CDK
- Built a RESTful API for viewing, deleting, editing, and resending messages from the DLQ back to the main SQS queue (Node.js, Express)
- Developed a user interface dashboard that enables users to manage the critical elements of the service (React, React-Bootstrap)
- Implemented a notification system that pushes a Slack notification when the DLQ receives a new message
- Contributed to the development of an accompanying Command Line Interface (CLI) utility (CommanderJS, InquirerJS) and published it as an NPM package to automate the deployment of Kuri
- Collaborated with a remote team of international engineers on the design and development of the Kuri project
- Presented a live tech talk about Kuri, viewable at: <https://www.youtube.com/watch?v=4cJkspwzjDQ&t=23s> ⓘ
- Authored a comprehensive technical case study, readable at: kuri-dlq.github.io/#case-study ⓘ

Full Stack Software Engineer

2019 – 2022

Launch School Experience

Attended a mastery-based education program focused on software engineering fundamentals. Developed open-source software using both the JavaScript and Ruby ecosystems. Some highlighted projects include:

- Request Bucket: an application built to capture and monitor webhooks (Node.js, Express, MongoDB, PostgreSQL, deployed on DigitalOcean Droplet with Nginx and PM2)
- Shopping Cart: a database-backed e-commerce application (Node.js, Express, React, MongoDB)
- Bello: a Trello-like collaboration application (Node.js, Express, React, MongoDB)
- ToDo Tracker: A database-backed todo tracking application (Ruby, Sinatra, PostgreSQL, deployed on Heroku)

SKILLS

Languages and Frameworks

Ruby, Javascript, Go, SQL, HTML/CSS, React, Express, Sinatra, Handlebars

Technologies

Git/Github, Docker, HTTP, RESTful APIs, Webhooks, Nginx, PostgreSQL, MongoDB

Cloud

AWS (SQS, SNS, Lambda, IAM, S3, DynamoDB, CDK, SDK), Digital Ocean (Droplets), Heroku

PROFESSIONAL EXPERIENCE

Postdoctoral Associate

2014 – 2019

University of Pennsylvania

- Studied the epigenetic regulation of gene expression in mouse embryonic stem cells
- Designed and performed experiments, analyzed data, presented research findings

Adjunct Assistant Professor

2012 – 2014

Temple University

- Instructed and trained students in various Biology courses
- Evaluated and graded student coursework, assignments, and exams.

EDUCATION

PhD, Cell and Molecular Biology

2002 – 2007

University of Pennsylvania

BS, Biochemistry

1997 – 2000

University of Iceland