

Kris Ingva

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TECHNICAL EXPERIENCE

Project Co-Founder, Software Engineer

05/2022 – 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)
- Contributed to the development of an accompanying CLI utility (CommanderJS, InquirerJS) that automates the deployment of Kuri and published it as an NPM package
- Implemented a notification system that pushes a Slack notification when the DLQ receives a new message
- Collaborated with a remote team of international engineers on the design and development of the Kuri project
- Presented a live tech talk [↗](#) about Kuri
- Authored a comprehensive technical case study, readable at: kuri-dlq.github.io/#case-study [↗](#)

Full Stack Software Engineer

09/2019 – 04/2022

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, OOP, Message Queues)

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

PROFESSIONAL EXPERIENCE

Postdoctoral Associate

02/2014 – 04/2019

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

01/2012 – 01/2014

Temple University

- Instructed and trained students in various Biology courses

EDUCATION

Software Engineering

09/2019 – 04/2022

Launch School

PhD, Cell and Molecular Biology

05/2002 – 12/2007

University of Pennsylvania

BS, Biochemistry

09/1997 – 05/2000

University of Iceland