

# Kris Ingva

✉ krasingva@gmail.com    📧 krasingva.com    🌐 github.com/krasingva    in krasingva

## TECHNICAL EXPERIENCE

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### Project Co-Founder, Software Engineer

05/2022 – present

#### Kuri

Kuri ([kuri-dlq.github.io](https://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](https://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

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### 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

### Cloud

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

## PROFESSIONAL EXPERIENCE

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### 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

## EDUCATION

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### Software Engineering

2019 – 2022

#### Launch School

### PhD, Cell and Molecular Biology

2002 – 2007

#### University of Pennsylvania

### BS, Biochemistry

1997 – 2000

#### University of Iceland