

# Arjun Rasodha

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## PROFILE

I am a software engineer with full-stack experience building cloud applications. Most recently, I co-created Kuri, an open-source Dead-Letter Queue-as-a-Service for distributed applications deployed on an AWS infrastructure. I love working in a team environment and have a passion for learning new technologies. My objective is to join a company where I can learn from experienced engineers and continue to grow into a valuable asset for the company.

## EXPERIENCE

### Co-Creator, Software Engineer

04/2022 – present

*Kuri (www.kuri-dlq.github.io 📄)*

- Kuri is an open-source, easy-to-configure, Dead-Letter Queue-as-a-Service for applications that use a microservices architecture on an AWS infrastructure.
- Designed a scalable, easy-to-develop, event-driven architecture composed of a backend API service, React admin dashboard and AWS infrastructure
  - Prototyped an alternative infrastructure design with AWS Cloud Development Kit and alternative CLI with Oclif
  - Built a dead-letter queue pipeline for AWS's Simple Queue Service queue that provides developers the ability to view, edit, delete and redrive dead-letter messages
  - Developed a custom Command Line Interface packaged into a NPM package for developers to install, configure and deploy with minimal effort using Commander.js and Inquirer.js libraries
  - Automated cloud deployment to create and configure 17 AWS resources and policies using their Software Development Kit (SQS, Lambdas, S3, SNS, IAM, DynamoDB)
  - Implemented a REST API with Node.js and the Express framework to interact with DynamoDB
  - Built a React client side dashboard for the user interface that consumes the backend API
  - Utilized Git and GitHub for version control and team collaboration
  - Authored technical case study 📄 and video presentation on design & engineering decisions made

### Software Engineer

01/2021 – 04/2022

*Self Employed*

Developed open source software, some highlighted projects include:

- **Jello:** full-stack project management app using React/Redux, Node.js/Express, RESTful API, MongoDB, and more
- **Airlines Routes:** airline routes application that displays information on routes flown by major airlines using React and flat mapping to render over 1,700 SVG elements efficiently
- **ToDo List:** An interactive todo list manager created using vanilla client-side JavaScript, Handlebars and MVC model
- **Request Bucket:** a tool to debug webhooks using Node.js/Express, WebSockets, React, PostgreSQL and MongoDB
- **Shopping Cart:** a full-stack application using React/Redux, REST API, MongoDB and more
- **Contact Manager:** a contact manager single page application using client-side vanilla JavaScript, MVC model, Handlebars and jQuery

### Dispatcher / Administration

01/2018 – 12/2020

*Legend Trucklines Ltd (Part-time)*

- In charge of dispatching, administration and management responsibilities

### Material Handling Team Leader

01/2016 – 05/2020

*Fiat Chrysler Automobiles (Part-time)*

- Tracking inventory and order data using in-house software programs, delegating tasks to team members and other leadership responsibilities

## SKILLS

### Languages

JavaScript, TypeScript, Go, SQL HTML/CSS

### Technologies

PostgreSQL, MongoDB, Docker, Webhooks, Git/Github, Nginx, HTTP, OOP, REST API, Linux, DOM

### Frameworks

React, Redux, Node.js, Express, Jest, Handlebars

### Cloud

AWS (SQS, SNS, Lambdas, IAM, S3, DynamoDB, EC2, VPC), DigitalOcean Droplet, Heroku

## EDUCATION

### Software Engineering

2020 – 2022

*Launch School (Core Curriculum & Capstone) 📄*

- Multi-year, mastery-based software engineering curriculum, with progression gated by written exams and live coding interviews to develop problem-solving skills. Read more at [launchschool.com/employers](https://launchschool.com/employers) 📄

### BASc. Justice Studies and Community Services

2016 – 2020

*University of Guelph-Humber*

- Dual-credit program earning a degree in Justice Studies and diploma in Community and Justice Services
- Graduated with honours