

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 work with experienced engineers and continue to grow into a valuable asset for the company.

EXPERIENCE

Software Engineer

10/2022 – 02/2023

Clutch Technologies Inc [🔗](#)

Clutch is Canada's largest online used car retailer, delivering a seamless, hassle-free car buying and financing experience to drivers everywhere.

- Worked as part of a team and individually to design, implement and deliver full stack software solutions to meet product teams feature requests
- Delivered clean, readable and well tested code with a high degree of reliability
- Identified and resolved performance and scalability issues
- Contributed to architecture and design discussions
- Displayed a strong sense of ownership with a sense of urgency
- Primarily focused on building client and admin facing finance application with React interface and Node API server
- Used agile methodology

Co-Creator, Software Engineer

04/2022 – 10/2022

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

Software Engineer

01/2015 – 12/2020

Freelance, Contracted Support Work

During these few years I have utilized my ability to learn quickly on the go and contribute to existing projects where developers need additional short-term/mid-term support for an hourly wage. Some projects include:

- **E-commerce Drop-shipping Store:** Helped a small team of engineers build out their backend API to be integrated with third party API's such as Shopify. Also helped build their frontend dashboard with React.
- **Trucking Software:** Made significant contributions to trucking administrative software to make business operations such as invoicing, tracking expenses and customer data more efficient. Scaled this software to be cost-effective using AWS.
- **Restaurant Management Application:** Built a full-stack cloud hosted application service that allows restaurant management to track inventory, sales, employee data and other expenses.
- **Webhook Management Application:** Helped design and build a webhook management system that allows automatic retries and rate limiting through an intuitive dashboard.
- **Car Dealership Application:** Worked with engineers to build and maintain their application for their car dealerships needs. This included a backend Node API server as well as client-side React interface to view vehicles, contact the dealership, schedule appointments and much more.

SKILLS

Languages

JavaScript, TypeScript, Go, SQL HTML/CSS, Python

Technologies

PostgreSQL, MongoDB, Docker, Webhooks, Git/Github, Nginx, HTTP, OOP, REST API, Linux, DOM, Elasticsearch, Terraform, Sequelize ORM

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 <https://launchschool.com/employers> [↗](#)
- Excellent article explaining Launch Schools mastery-based learning pedagogy compared to traditional bootcamps: <https://medium.com/launch-school/were-not-a-bootcamp-c33901412c38> [↗](#)

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