

# Will Lotherington

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## PROFILE

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I'm a software engineer with multiple years of experience in both the JavaScript and Ruby ecosystems and am comfortable with AWS and Docker. I am the co-creator of Ekko ([ekko-realtime.com](https://ekko-realtime.com) 🌐), an open-source framework that provides scalable realtime infrastructure and in-transit message processing for web applications.

## EXPERIENCE

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**Co-Creator, Software Engineer, Ekko** ([ekko-realtime.com](https://ekko-realtime.com)) 🌐 2021 – present

- Created Ekko, an open-source framework for building real-time applications with in-transit message processing.
- Designed, prototyped, and built Ekko using Node.js and Amazon Web Services (ECS Fargate, ELB, IAM, Lambda, S3).
- Led Ekko client SDK development that enabled developers to easily interact with Ekko server (JavaScript).
- Developed scalable cloud infrastructure for tens of thousands of WebSockets connections and Lambda invocations.
- Containerized Ekko server code for deployment to AWS cloud infrastructure (Docker, ECR, ECS Fargate).
- Automated AWS infrastructure deployment and teardown (Cloud Development Kit, CloudFormation templates, SDK).
- Worked on CLI tool for Ekko setup, infrastructure deployment/teardown, and Lambda management (oclif, JavaScript).
- Load tested Ekko with artillery.io to simulate 50,000 connections and 1 million messages sent in 100 seconds.
- Produced all front-end assets and animations for Ekko demos, case study website, and presentation.
- Authored Ekko's technical case study: <https://ekko-realtime.com/#case-study> 🌐

**Full Stack Developer, Self Employed** 2018 – 2021

- RequestBin - A database-backed application for receiving and debugging webhooks (Node.js, PostgreSQL, Socket.IO).
- Reaction - Trello-like collaboration app (MongoDB, Node.js/Express, React/Redux).
- Ruby Reps - Executable spaced repetition flashcards for Ruby (Ruby, JavaScript, jQuery, Sinatra, PostgreSQL).
- Postit - Reddit-like social app (Bootstrap, Rails, PostgreSQL, Twilio).
- Dijkstra's Trip - Airline routing application leveraging Dijkstra's algorithm to find the shortest path (Node.js, React).

**Various Positions, Keyence Corporation of America** 2014 – 2020

- Promoted quickly - held 5 roles in 6 years each with increased technical responsibilities and business strategy influence.
- Developed process improvement tools used by thousands of employees across various departments and affiliates.

## SKILLS

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**Languages** (JavaScript, Node.js, Ruby, SQL, HTML, CSS, Go)

**Frameworks** (Express.js, Handlebars, React.js, Redux, jQuery, Sinatra, Erb, Ruby on Rails, TailwindCSS, Bootstrap)

**Cloud** (Amazon Web Services (ALB, DynamoDB, EC2, ECR, ECS Fargate, IAM, Lambda, S3, SDK), Digital Ocean, Heroku)

**Technologies** (Git/GitHub, Docker, HTTP, JSON Web Token, PostgreSQL, MongoDB, Redis, REST APIs, WebSockets Linux)

## EDUCATION

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**University of California, San Diego, B.A. Visual Arts**

2008 – 2013