

# Will Lotherington

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## EXPERIENCE

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### Co-Creator, Software Engineer, Ekko 📄

2021 – present

- Co-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).
- 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.
- Collaborated daily with a small team of remote engineers spread over 14 time zones.
- Co-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).

### Keyence Corporation of America

#### Strategic Marketing Specialist

2018 – 2020

- Developed data dashboard web application used by 1.1K employees. Generated over 27K uses in the first 3 months.
- Designed product landing page which increased lead conversion by 11.3% and reduced bounce rate by 3.7%.

#### Senior Strategic Marketing Analyst

2017 – 2018

- Created an evolutionary matching algorithm that improved hiring conversion and allowed for double the candidates.

#### Strategic Marketing Analyst

2017 – 2017

- Built price estimator iPhone app that led to a 1.3% increase in sales line profit and a 5.8% decrease in returns.

#### Application Development Engineer

2016 – 2017

- Worked with major accounts to program computer vision solutions that leveraged 1D, 2D, and 3D imaging sensors.

#### Sales Engineer

2014 – 2016

## SKILLS

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**Back-end** (Node.js/Express, PostgreSQL, MongoDB, RESTful APIs, Ruby/Sinatra, Go)

**Front-end** (JavaScript, HTML/CSS, React/Redux, Handlebars.js, jQuery, TailwindCSS, Bootstrap)

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

**Tooling** (Git/GitHub, Docker, Linux)

## EDUCATION

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**University of California, San Diego**, Visual Arts, Major GPA 3.54

2008 – 2013