

# Catherine Emond

📍 Montreal, Canada ✉ catherine.dnome@gmail.com 🖱 catherineemond.github.io

## Summary

---

I'm a Software Engineer based in Montreal, Canada. I'm the co-creator of River [↗](#), a drop-in real-time service for web applications. I have multiple years of experience in both the Ruby and JavaScript ecosystems, and am comfortable with AWS (mainly EC2, ECS, Fargate, Lambda, and ElastiCache) and Docker.

## Skills

---

### Backend

Node.js, Express, Ruby, Rails, Sinatra, PostgreSQL, RESTful APIs

### Frontend

JavaScript (ES6), React/Redux, HTML/CSS, jQuery

### Tooling

Git/GitHub, Docker, Linux

### Cloud

AWS, Digital Ocean, Heroku

## Professional Experience

---

2020 – present

### Co-Creator, Software Engineer, River [↗](#)

- Co-created River, an open-source real-time service for web applications
- Prototyped and built the WebSocket server using Node.js, socket.io and Redis
- Designed and built the cloud infrastructure needed to support thousands of concurrent WebSocket connections
- Resolved dependencies and scaling issues using Docker and AWS Fargate to deploy on an ECS cluster
- Automated the infrastructure deployment using AWS Cloud Development Kit
- Load tested the real-time service using artillery.io to simulate 20,000 concurrent connections
- Co-authored River's case study: <https://river-live.github.io/> [↗](#)

2018 – 2020

### Full-Stack Web Developer, Self Employed

- Developed open-source software using Node.js, Express, Rails, Sinatra, PostgreSQL, React/Redux, vanilla JavaScript, HTML, and CSS
- Reaction - a project manager inspired by Trello built with Rails and React/Redux
- Postit - a Reddit-like application built with Ruby on Rails
- Todos - a todo tracker built with Node.js, Express, JavaScript, jQuery, Handlebars, HTML and CSS

2018 – 2020

### Teaching Assistant, Launch School [↗](#)

- Led weekly study groups teaching programming fundamentals, problem solving and Ruby Object-Oriented programming
- Provided detailed code reviews on small coding projects
- Provided feedback on written assessments testing practical and theoretical knowledge of programming fundamentals, OO Ruby and advanced Ruby
- Conducted coding interviews to assess problem solving and live coding abilities

2011 – 2017

*Multiple projects related to small-scale farming and community-supported agriculture*

## Education

---

2004 – 2010

**B.A., M.A. Classics and Classical Languages, Literatures, and Linguistics,**  
*Université de Montréal*