

Catherine Emond

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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.

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 by 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, 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