

Mark Hyams

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Profile

I'm a software engineer with multiple years of experience in both the Ruby and JavaScript ecosystems, and am comfortable with AWS and Docker. I am the co-creator of River, a drop-in real-time service for web applications.

Experience

Co-Creator & Software Engineer, River

2020

river-live.github.io [↗](#)

- Designed architecture: researched and decided on River infrastructure, considering trade-offs of various AWS resources
- Built WebSocket server: chose Node.js for its ability to handle high number of simultaneous connections, its widespread usage, and the extensibility of the Express.js framework
- Connected ElastiCache for Redis: chose Redis to leverage its publish-subscribe functionality when working with multiple nodes of the WebSocket server
- Configured deployment with AWS CDK: implemented Infrastructure-as-Code to create a repeatable and configurable deployment experience
- Deployed containerized server to AWS: to minimize server maintenance and fix the “works-on-my-machine” problem, containerized the WebSocket server and deployed on ECS Fargate
- Co-authored technical case study: explained the problems solved by River, compared existing solutions, and described River’s design and implementation: river-live.github.io [↗](#)

Full-stack Web Developer, Self-Employed

2018 – 2020

- Mello: Trello-like collaboration board with back-end API built with Rails and PostgreSQL, and front-end UI built with React and Redux
- Pro-Tix!: Project ticket-tracking app with user-login, comments, tags, tickets and projects. Built using Rails, PostgreSQL, and Bootstrap
- Airline Routes: React app bootstrapped with create-react-app, clickable SVG map
- Todos: To-dos SPA built with Node.js, Express.js, JavaScript, Handlebars, HTML and CSS

Orchestral Musician, Various Employers

1996 – 2018

- Played on GRAMMY-award-winning album with Saint Louis Symphony (2014)
- Won numerous national auditions for employment in highly-competitive orchestral positions

Skills

Languages

CSS, HTML, JavaScript, Node.js, PHP, Ruby, SQL

Frameworks

Express.js, Erb, Handlebars, Ruby on Rails, Sinatra, React.js, Redux

AWS Cloud

API Gateway, CDK, ECS Fargate, Elastic Load Balancer, ElastiCache, Lambda

Technologies

Docker, Git/Github, HTTP, JSON Web Token, PostgreSQL, Redis, REST APIs, WebSocket

Education

Launch School

2018 – 2020

Multi-year full-stack Software Engineering curriculum, mastery-based learning
Ruby, JavaScript, SQL, HTTP, HTML, CSS | launchschool.com/employers [↗](#)

Northwestern University

1999 – 2000 | Evanston

Master of Music in Performance

University of Colorado

1993 – 1997 | Boulder

Bachelor of Music in Performance | Minor in Mathematics