

Mark Hyams

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Experience

Co-Creator & Software Engineer, River

2020

Drop-in real-time service for web applications, easily deployed, and ready to scale

- Designed architecture: researched and decided on River architecture, 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 front-end UI built with React + 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 – 2020

- Performed with orchestras all over the United States, as well as Malaysia, Japan and Australia
- Played on GRAMMY-award-winning album with Saint Louis Symphony (2014)
- Won numerous national auditions for employment in highly-competitive orchestral positions
- Received tenure after hiring in every orchestra
- Performed in Carnegie Hall with Saint Louis Symphony (2007)

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, Node.js, SQL, HTTP, HTML, CSS, launchschool.com/employers 📄

Northwestern University

1999 – 2000 | Evanston, Illinois

Master of Music in Performance

University of Colorado

1993 – 1997 | Boulder

Bachelor of Music in Performance, Minor in Mathematics