Portland, Oregon
Albuquerque, New Mexico

MARK HYAMS

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EXPERIENCE

Co-Creator & Software Engineer   **River** (2020)   **remote**

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: https://river-live.github.io

Full-stack Web Developer   **Self-employed** (2018—2020)   **remote**

- **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
- **Home Run Pool**: A custom fantasy-sports app. Scrapes Yahoo! Sports using PHP on a daily cron job, and compiles stats
- **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)

EDUCATION

Launch School   2018—2020

- Multi-year full-stack Software Engineering curriculum, focused on mastering fundamentals
- Back end: Ruby, Node.js, HTTP, PostgreSQL
- Front end: HTML, CSS, JavaScript

Evanston, Illinois   **Northwestern University**   1999—2000

- Master of Music in Performance, June 2000

Boulder, Colorado   **University of Colorado**   1994—1997

- Bachelor of Music in Performance, May 1997

SKILLS

Languages

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

Technologies

- AWS (API Gateway, CDK, ECS Fargate, Elastic Load Balancer, ElastiCache, Lambda), Docker, Erb, Express.js, Git/Github, Handlebars, HTTP, PostgreSQL, Redis, Ruby on Rails, Sinatra, React, Redux, REST APIs