

Connor McMillion

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Summary

I am a full stack software engineer with a passion for problem solving. I have a background in Ruby and JavaScript ecosystems and am comfortable implementing solutions using AWS, React.js and Go.

Relevant Experience

Creator, Software Engineer, Otter (<https://otter-framework.github.io/>)  01/2023 – present

Otter is an open source, cloud native framework that facilitates peer-to-peer video-communication within web applications.

- Architected an auto-scaling serverless infrastructure on AWS to enable WebRTC video calling functionality (HTTP/WebSocket API Gateways, Lambda functions, ECS with Fargate, and DynamoDB)
- Created a CLI tool to automate deployment and teardown of AWS cloud infrastructure using Cloudformation
- Collaborated with a remote team of four engineers across three timezones
- Secured HTTP/Websocket gateways by implementing API keys and JSON Web Tokens
- Optimized Otter for low latency by reducing number of reads to DynamoDB
- Designed a frontend React application for facilitating 1-on-1 video calls natively within browsers. Features include audio/video, instant messaging and file sharing functionality
- Authored a case study detailing the engineering challenges faced while building Otter: <https://otter-framework.github.io/docs/case-study/introduction/> 

Software Engineer, Self Employed 2020 – 2023

- Developed open-source web applications with technologies such as Node, Ruby, PostgreSQL, React, JavaScript, WebSockets, HTML & CSS
- Selected Projects:
 - ReAck: A application for inspecting HTTP Webhook requests (React, Node.js, Express, WebSockets, PostgreSQL, MongoDB)
 - Later: An productivity application for organizing tasks (JavaScript, Ruby, Sinatra, PostgreSQL)

Skills & Languages

Frontend:

JavaScript, React.js, HTML/CSS

Backend:

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

Other:

Git, Github, Linux, Websockets, AWS Services (DynamoDB, Lambda, EC2, API Gateway, S3, ECS, Cloudformation), STUN/TURN, WebRTC, SDP, Docker

Education

B.S. in Cellular, Molecular & Developmental Biology,

University of California Santa Cruz
2016 – 2020

Other Experience

Academic & Test Prep Tutor, AJ Tutoring

2021 – 2022
Los Altos, CA