


Connor McMillion

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Summary

I am a full stack software engineer with a passion for advancing education through technology. 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 enables peer-to-peer video-communication within web applications.

- Architected an auto-scaling serverless infrastructure on AWS to enable WebRTC 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
- Collaborated with a remote team of 4 engineers across 3 time zones
- 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 Otter's case study: <https://otter-framework.github.io/docs/case-study/introduction/>

Software Engineer, Self Employed 2021 – 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)
 - Todos: A todo tracking application. (Javascript, Ruby, Sinatra, PostgreSQL)

Skills & Languages

Front-End:

Javascript, React.js, HTML/CSS

Back-End:

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

Other:

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

Education

Launch School

2021 – 2023

Full-stack development program with an emphasis on mastering programming fundamentals.

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