

# Owen Lenz


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## Professional Experience

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### Co-Creator, Software Engineer, Jolt

2021 – present

Jolt is an open source framework that makes it easy for users to build, deploy and manage JAMstack applications with serverless functions. Built with Node.js and Amazon Web Services (Node SDK, Lambda, S3, DynamoDB, API Gateway, CloudFront). <https://jolt-framework.github.io/> 

- Researched, prototyped and built a framework that deploys secure, highly-scalable, low-latency JAMstack applications on AWS alongside Lambdas that provide serverless compute enabling applications to deliver dynamic content without backend servers.
- Built a local development server with Express.js for invoking and testing Lambdas. Integrates with front-end development servers to make the testing and debugging of serverless functions easier for developers.
- Contributed to rollback, update and teardown functionality for applications deployed with Jolt by ensuring that each deployment/update is atomic and associated infrastructure and static assets are recorded on and retrieved from DynamoDB.
- Introduced AWS Lambda@Edge and client-side caching to allow applications to use shorter, more intuitive relative paths for requests to Lambdas on API Gateway while also reducing the cost of Lambda@Edge invocations and round trip latency by ~100 ms.
- Led the creation of a CLI used for developing and deploying JAMstack applications with serverless functions.
- Worked on a remote team of engineers through sprints, daily standups and pair programming.
- Authored a technical whitepaper and gave a presentation to an audience of 50+ on Jolt's design and implementation. <https://jolt-framework.github.io/#case-study> 

### Software Engineer, Self-Employed

2019 – 2021

- Group Limericks - A multiplayer web app where limericks are written one line at a time as they are passed between players (Ruby/Sinatra, eRuby, jQuery, Heroku).
- Swello - A Trello-like SPA with drag-and-drop functionality (MongoDB, Node.js/Express, React/Redux).
- Flykstra's Map - Displays and filters airline routes on a world map and highlights the shortest path between two selected airports using Dijkstra's pathfinding algorithm (React).
- Contact Manager - A CRUD app for storing and filtering contacts (Node.js/Express, PostgreSQL, vanilla JavaScript).

### Violinist, Self-Employed

2012 – 2018

- Taught violin and performed with orchestras, chamber groups and musical theater productions throughout New York and New England.

## Skills

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### Languages

JavaScript (ES6), Ruby, Go, SQL, HTML, CSS

### Cloud

AWS (Lambda, S3, CloudFront, API Gateway, DynamoDB, SDK), Heroku, Digital Ocean

### Frameworks

React/Redux, Express, Sinatra, Handlebars, eRuby

### Misc. Skills

Linux CLI, Git/Github, OOP, MongoDB, REST, HTTP, PostgreSQL, Redis

## Education

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### Launch School, <https://launchschool.com/employers>

2019 – 2021

A multi-year full-stack mastery-based software engineering curriculum. Ruby, JavaScript, SQL, HTTP, HTML, and CSS.

### SUNY Purchase Conservatory of Music, Bachelor of Music (Violin)

2008 – 2012