

# John Isom

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## PROFESSIONAL EXPERIENCE

### Software Development Engineer III, GoDaddy / Re:amaze

Nov 2020 – present

<https://reamaze.com/> ↗ | <https://godaddy.com/> ↗

*Re:amaze acquired by GoDaddy Spring 2021.*

At Re:amaze by GoDaddy I've

- Taken a backend-centric role where I led the adoption of a new attachment backend in our Rails app.
- Managed and executed the seamless migration of 20 million file attachments with no downtime or performance issues using multi-threading.
- Created a new column in a database table with 118 million+ records and backfilled the values with minimal downtime.
- Spec'd out and built various APIs for integration with GoDaddy products.
- Took the lead in migrating a massive monolithic Rails app from Rails 5 → 6.
- Designed and added drop-in encryption for sensitive fields in our database with full backward compatibility and no downtime.
- Teamed up with another engineer to publish snapshots of our 1.7TB database into AWS Data Lake.
- Worked with Ruby, Rails, Postgres, Ubuntu Linux, Docker/K8S, AWS, and React on a daily basis.

### Co-Creator & Software Engineer, Maestro

Jun 2020 – Oct 2020

Open-source easy-to-use framework for quickly bootstrapping, deploying, and rapidly iterating serverless orchestration workflows with AWS IAM, AWS Lambda, and AWS Step Functions.

Read the case study here: <https://maestro-framework.github.io/> ↗

- Leveraged asynchronous Node.js<sup>®</sup> execution to improve deployment and teardown time to be lightning fast.
- Created a framework that is over 60x faster to deploy than the fastest competitor (AWS SAM).
- Built a robust and easy-to-use CLI that abstracts away complex deployment logic, available as an npm package.
- Wrote detailed yet concise documentation and man pages for each CLI subcommand.
- Co-authored a detailed case study that explores the area of serverless orchestration, existing solutions in the problem space, and the process of creating Maestro (<https://maestro-framework.github.io/> ↗).
- Pioneered a greenfield project in a niche space.
- Collaborated daily with a 100% remote team of engineers.

### Full-Stack Developer, Self-Employed

Aug 2019 – May 2020

Developed a variety of open source web apps using Ruby, Rails, JavaScript, Node.js, React.js, HTML, CSS, and SQL.

- Reaction: A Trello-like organization board built with React.js, Redux, PostgreSQL, and Rails; powered by a RESTful API.
- Just Postit: A Reddit-like social app built with Bootstrap, Rails, and PostgreSQL; deployed to Heroku.
- The Time Manager: A time-tracking application that helps track study/work time, built with OOP-designed Ruby and the Sinatra framework.

## LANGUAGES AND TECHNOLOGIES

### Languages

- JavaScript (ES5 & ES6+)
- Ruby
- SQL
- C++
- HTML5 & CSS3
- Python

### Frameworks

- Rails
- Sinatra
- React.js & Redux
- jQuery
- Handlebars.js

### Cloud

- AWS Step Functions;
- Lambda; EC2; Aurora; EKS (Docker and Kubernetes);
- Data Lake; SNS; S3; Athena
- GitHub Actions
- Linode; other VPS solutions

### Other

- GNU/Linux
- Git & GitHub
- IP; TCP; UDP; HTTP; TLS
- OOP
- Agile

## EDUCATION

### Western Governors University, B.S. of Computer Science

Apr 2021 – Mar 2022

While working as a Software Development Engineer III full-time, I'm completing Western Governors University coursework part-time to get a B.S. of Computer Science.

### Launch School, Software Engineering ↗

Aug 2019 – May 2020

A rigorous online school for software engineers with a Mastery-Based Learning pedagogy.

[launchschool.com/employers](https://launchschool.com/employers) ↗

- Achieved straight A's and A+'s in all rigorous assessments

## CERTIFICATES

### Triplebyte Generalist ↗

Awarded to those who score in the top 10% of test takers on the Triplebyte generalist software engineering assessment.