John Isom *Software Engineer*

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Professional Experience

Software Engineer, *Prime Trust*   Jan 2022 – present

https://primetrust.com/ ⧉

As of this writing (February 2023), at Prime Trust I've
- Integrated a complex system into a new ledger system with millions of transactions to help decrease costs by ~$70k per month.
- Improved business logic and leveraged SQL to save the company ~$50k per month in api calls.
- Researched and ran learning sessions for Docker & Docker Compose and Kafka.
- Set up Kafka and set up data pipelines between multiple services
- Dockerified the monolith, saving all new onboardees valuable time with setting up their development environment, and pioneered the use of docker in all future services with a fellow Senior Engineer
- Created new Node.js services with express.js and nest.js, automating manual processes to be more accurate and efficient
- Worked with Staff Engineers to set up inter-service authentication
- On the people side off things, I've onboarded and mentored a new teammate
- Worked closely with my peers of Senior engineers
- Ran meetings as needed
- Saw the need for and created an optional and successful biweekly team social hour

Software Development Engineer III, *GoDaddy / Re:amaze*   Nov 2020 – Jan 2022 | Remote

Re:amaze acquired by GoDaddy Spring 2021.
https://reamaze.com | https://godaddy.com

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 Framework*   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® 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.

Languages and Technologies

Languages
- JavaScript (ES5 & ES6+)
- TypeScript
- Ruby
- SQL

Frameworks
- Rails
- React.js & Redux; jQuery
- express.js
- Next.js
- Roda; Sequel (Ruby)

Cloud
- AWS Step Functions; S3; Lambda; EC2; Aurora; EKS; SNS
- Docker & Docker Compose; Kafka; RabbitMQ
- Linode; Heroku

Other
- Linux
- Git & GitHub; GitHub actions
- JIRA; Confluence
- Networking stack
- OOP
- Agile

Education

Launch School, *Software Engineering* ⧉   Aug 2019 – May 2020

A rigorous online school for software engineers with a Mastery-Based Learning pedagogy. launchschool.com/employers ⧉

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

Western Governers University,

B.S. of Computer Science (incomplete)

While working as a Software Engineer full-time, I have completed half of Western Governers University coursework part-time to get a B.S. of Computer Science. Left in good academic standing.

Certificates

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