Mia Jimenez

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Professional Experience

Co-Creator, Software Engineer, *Artemis* 01/2022 – present

- Designed, prototyped, and implemented Artemis: an open-source, serverless framework for scalable API load testing. Artemis is an easily deployable, cloud-based load testing framework that provides data retention via AWS Timestream and near real-time result visualization via a customizable Grafana dashboard.
- Designed and built AWS infrastructure to generate load of up to 20,000 virtual users.
- Built a CLI application using AWS CDK and SDK libraries to automate the deployment of Artemis' infrastructure and to allow users to create, configure, and launch their tests.
- Engineered a solution for starting tests across load testing containers simultaneously.
- Developed an admin dashboard to make Artemis' CLI functionality available through a graphical user interface using React and Express.
- Created custom Docker images for the load generation, data aggregation, and data visualization containers within Artemis' architecture.
- Collaborated with a remote team of engineers, including daily standups and pair programming.
- Authored and presented a technical case study describing the load testing problem domain and Artemis' technical decisions.

Full-Stack Web Developer, *Self-directed learning* 08/2020 – 01/2022

- TortoiseBin - A tool for receiving and debugging webhooks (Nginx, DigitalOcean Droplet, PostgreSQL, PM2).
- Trellis - A Trello-like kanban board for task tracking (MongoDB, Express, Node, React, Redux).
- TodoList - A full-stack web application for keeping track of your todos (Sinatra, Ruby, Heroku, PostgreSQL).

Teaching Assistant, *Launch School* 04/2021 – 11/2021

- Led weekly study groups teaching programming fundamentals and problem-solving.
- Performed over 150 detailed code reviews on student programming assignments.
- Answered technical forum questions, graded exams, and wrote course content.

Structural Engineer, *Walter P Moore* 07/2018 – 08/2020

- Designed and modeled structures to produce construction documents, regularly interfacing with other engineering teams and clients.

Skills

Languages and Frameworks
Ruby, JavaScript, Golang, TypeScript, SQL, Express, React/Redux, Node.js, Sinatra

Cloud
Heroku, Digital Ocean, AWS (VPC, ECS, Fargate, Lambda, S3, ECR, Timestream, CloudFormation)

Other Technologies
Git, GitHub, PostgreSQL, MongoDB, HTML/CSS, Docker, Telegraf, Grafana, k6, RESTful APIs, Postman

Education

Software Engineering & Web Development, *Launch School* 2020 – 2022

Multi-year, mastery-based software engineering curriculum, with progression gated by written exams and live coding interviews to develop problem solving and technical skills.

M.S. Structural Engineering, *Stanford University* 2016 – 2018

B.S. Civil Engineering, *Virginia Tech* 2012 – 2016