# Mia Jimenez

Reston, VA    miajim@vt.edu    miajim.github.io    https://github.com/miajim

## 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 8-10 detailed code reviews per week on 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 | Cloud | Other Technologies |
|---|---|---|
| *Ruby, JavaScript, Golang, TypeScript, SQL, Express, React/Redux, Node.js, Sinatra* | *Heroku, Digital Ocean, AWS (VPC, ECS, Fargate, Lambda, S3, ECR, Timestream, CloudFormation)* | *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