Raul Romero Cano

✉ raulromerocano@aggienetwork.com   ✈ raulromerocano.dev   📍 St. John's, Newfoundland

🏳 Canadian Permanent Resident

Professional Experience

Jan 2022 — present
Remote

Co-Creator, Software Engineer, *Artemis* ⧉
- 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 robust data retention and a clean, customizable dashboard to visualize near real-time results.
- Designed and built AWS infrastructure to generate load of up to 20,000 virtual users using AWS ECS and Fargate.
- 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 using AWS Lambda and S3.
- Contributed to the development of an admin dashboard to make Artemis' CLI functionality available through a graphical user interface using ReactJS and Express.
- Built and published Artemis as an NPM package.
- 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 justified Artemis' technical decisions.

Jun 2020 — Jan 2022
St. John's,
Newfoundland

Software Engineer, *Self-employed*
- Tortoise Bin - A tool to inspect and debug webhook requests. (Nginx, PM2, PostgreSQL, DigitalOcean Droplet).
- Trellis - A Trello-like kanban board for task tracking (MongoDB, Express, Node, React, Redux).
- Shopping Cart - A database-backed inventory management app (React, Redux, MongoDB, Node).
- Contact Manager - A contact manager web application using the MVC design pattern (HTML, CSS, JavaScript).

Jan 2019 — Jun 2020
St. John's,
Newfoundland

Field Engineer, *Schlumberger*
- Worked on a wide array of international projects, regularly interfacing with other engineering teams and clients.
- Responsible for effective equipment preparation, job organization, and unimpaired offshore service delivery on a bi-monthly basis for $200k - $500k projects.

Skills

Languages and Frameworks
JavaScript, Node, Express, React, Ruby, Handlebars, Sinatra, Golang

Cloud
AWS (ECS, Fargate, ECR, Timestream, S3, SDK, CDK, Cloudmap, CloudFormation), Heroku, DigitalOcean

Other Technologies
PostgreSQL, MongoDB, HTTP, OOP, REST APIs, Telegraf, Grafana, Git, GitHub, Docker, API load testing, HTML/CSS, Linux

Education

2022

Software Engineering, Capstone Program, *Launch School* ⧉
Multi-year, mastery-based software engineering curriculum, with progression gated by written exams and live coding interviews to develop problem solving and technical skills.

2017

B.S. in Petroleum Engineering, *Texas A&M University*