

Raul Romero Cano

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🇨🇦 Canadian Permanent Resident

Professional Experience

Jul 2022 – present
Remote

Cloud Application Developer, BMO

- Leverage cloud services to build APIs that enable interaction between distinct financial backend systems to facilitate information access, transactions, and payments.
- AWS Lambda, SQS, SNS, S3, CDK, Glue, DynamoDB, DocumentDB/MongoDB
- JavaScript/NodeJS, Python, Java

Jan 2022 – Jun 2022
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.
- 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

Developed open-source software using Node.js, Express, Ruby, Sinatra, PostgreSQL, MongoDB, React/Redux, JavaScript, HTML, and CSS.

- 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, Lambda, Timestream, S3, SNS, SQS, CDK

Other Technologies

PostgreSQL, MongoDB, REST APIs, Grafana, Docker, HTML/CSS

Education

2020 – 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.

2013 – 2017

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