

Ryan Lopopolo

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EXPERIENCE

Staff Software Engineer

2017 – present

Stripe

Ruby, SQL, Python, Spark

- LATAM** Led project to rebuild post-billed fees system to support collecting revenue in Brazil. Built new API reporting to surface internal balance activity to merchants. Built distributed system for achieving compliance when routing payouts.
- Efficiency** Built out organizational competency in managing and optimizing infrastructure costs. Reduced AWS spend by tens of millions of dollars.

Platform Engineer

2016 – 2017

Citadel LLC

Python, Ansible, Packer, Terraform

- Cloud** Transitioned MBO services from on-prem to hybrid cloud in AWS and GCP. Created cloud infrastructure for citadel.com and citadelsecurities.com.
- Dev Prod** Led the adoption of Ansible Tower across MBO engineering teams.

Senior Software Engineer

2012 – 2016

Box

Scala, PHP, Objective-C, Go

- API Plat** Led project to reduce API 5xx errors by 99% and reduce latency by 25%. Created iOS SDKs for the Content API and Metadata API.
- Metadata** Built a distributed document store for storing schemaful xattrs on files.

EDUCATION

Bachelor of Science in Computer Science and Engineering

2007 – 2012

Massachusetts Institute of Technology

OPEN SOURCE

Artichoke Ruby

2019 – present

Artichoke is a Ruby made with Rust

Rust, Ruby, JavaScript, TypeScript, Terraform

Artichoke is an alternative Ruby VM written in Rust that targets WebAssembly and embedded uses.

Project <https://www.artichokeruby.org/>

Wasm Playground <https://artichoke.run/>

GitHub <https://github.com/artichoke/artichoke>

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WRITING

hyperbo.la blog

<https://hyperbo.la/w/>

Leadership <https://hyperbo.la/w/nemawashi/>

Collaboration <https://hyperbo.la/w/engineering-finance-partnership/>

Rust <https://hyperbo.la/w/cactus-harvesting/>

Stripe engineering blog

<https://stripe.com/blog/engineering>

AWS <https://stripe.com/blog/aws-reserved-instances>

Building a Ruby: Artichoke is a Ruby Made with Rust

RubyConf 2019 <https://youtu.be/QMni48MBqFw>

The AWS Billing Machine and Optimizing Cloud Costs

Monitorama 2019 <https://vimeo.com/341148381>

SREcon APAC 2019 <https://youtu.be/I4BLfY54SsY>

DevOpsDays Seattle 2019 <https://youtu.be/QBpP3KpdM9c>