

Alexander Mancevice

Senior software engineer with 14 years of experience who enjoys working with emerging technology and design patterns; particularly open source tools, serverless infrastructure, and microservices.

I a contributor to many open source projects, including the Hashicorp AWS Terraform provider, Go Task, AWS GitHub actions, Homebrew.



CONTACT

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github.com/amancevice

US/EU Citizenship

EDUCATION

B.S. IN COMPUTER SCIENCE

UBC – Vancouver, BC, Canada

LANGUAGES

- Ruby / Rails
- Python
- JavaScript
- Shell
- Terraform
- Go
- SQL

CONCEPTS

- Serverless
- Infrastructure as Code
- Microservices
- NoSQL
- Distributed Systems

PLATFORMS

- Linux
- macOS
- AWS
- Google Cloud
- Heroku

Experience

Kickstarter • Brooklyn, NY

SENIOR INFRASTRUCTURE ENGINEER

- Lead planning and transition from cloud infrastructure from disparate CloudFormation templates (where existing) to Terraform monorepo.
- Lead planning and transition from Chef to custom AMIs using AWS EC2 Image Builder.
- Developed internal universal command line interface for executing developer tasks such as building, testing, and deploying.
- Set up custom Slack app for internal workflows and automated alerting.
- Introduced serverless patterns to the engineering team, including migrating a legacy system from AWS Elastic Container System (ECS) to AWS Lambda + API Gateway, leading to decreased latency and operational costs.

CargoMetrics • Boston, MA

SENIOR SOFTWARE ENGINEER

- Designed core components of CargoMetrics' commodity trading system, including data models, command-line interfaces, dashboards, and cloud infrastructure.
- Helped the company transition from monolithic applications running on traditional infrastructure to microservices running in serverless or container-based environments.
- Migrated numerous legacy schedule-based systems to event-driven and resilient cloud processes, hardening reliability of cloud infrastructure and reducing the number of alarm states.
- Continuously iterated and improved upon design patterns that were adopted by the engineering team for infrastructure setup, CI/CD pipelines, and code design

DataXu • Boston, MA

APPLICATION ENGINEER

- Helped craft custom, rapid solutions and proof-of-concepts for DataXu's programmatic ad-buying platform, including the initial proposal to integrate real-time video into the product.
- First hire for DataXu's original Solutions Engineering team and helped craft the department's role in the company.

— Apr '21 —

— Apr '13 – Mar '21 —

— Nov '10 – Mar '13 —

Portfolio

Brutalismbot • *Twitter App* • *Slack App*

[GITHUB](#) | [TWITTER](#) | [HOMEPAGE](#)

- ▶ Serverless app that mirrors posts from /r/brutalism to Twitter & Slack.
- ▶ Hosted on AWS using a completely serverless infrastructure
- ▶ Alongside the core application is a static website hosted on S3 and distributed via CloudFront
- ▶ Support email address configured with SES
- ▶ Application health monitoring via CloudWatch

Yake • *Serverless Toolkit*

[GITHUB](#) | [RUBYGEMS](#)

- ▶ Written in pure Ruby (no dependencies)
- ▶ Enables developers to write Lambda functions with out-of-the-box logging of events & results
- ▶ Toolkit for writing Sinatra-like AWS API Gateway handlers
- ▶ Support library for Rails-like helper methods like *Integer#hours* and *Hash#symbolize_names*

Serverless PyPI • *HTTP API*

[GITHUB](#) | [TERRAFORM REGISTRY](#)

- ▶ Terraform module for deploying a custom PyPI index on AWS backed by S3
- ▶ Users can store Python packages on S3 and retrieve them with pip over HTTP using API Gateway and a Lambda proxy function
- ▶ An additional module is available to attach Cognito-based authentication to your index

Superset • *Docker Image*

[GITHUB](#) | [DOCKER HUB](#)

- ▶ The most-popular public Docker image for the Apache data visualization tool, Superset
- ▶ In addition to tagged updates, weekly automated builds allow users to test features on the master branch of the source repository