

Michel Rouly

Washington, DC

email michel@rouly.net git github.com/jrouly
web michel.rouly.net gpg [0x1DFE3B2C](https://keybase.io/jrouly)

Skills

languages scala, python, typescript, javascript, java
libraries pandas, sklearn, play, akka, cats
data sql, dagster, postgres, elasticsearch, redis
devops kubernetes, docker, terraform, helm, jenkins, drone, prometheus, datadog
aws eks, rds, iam, s3, route53, cognito, ec2, vpc, sso, opensearch
etc bash, git, sbt, npm, gpg, openapi, grpc

Work

Zephyr AI {python, machine learning, infrastructure}

(zephyrai.bio)

Principal Software Engineer

04/2021 - present

- Designed and implemented multiaccount AWS cloud architecture including networking (VPC), compute (EKS), data (RDS, S3), and identity (IAM, SSO) layers managed with Terraform.
- Introduced and implemented Python and Scala toolchains supporting a polyglot stack.
- Designed, built, and supported microservice architecture leveraging gRPC.
- Orchestrated complex data processing and model training graphs with Dagster and Python.
- Configured continuous integration and delivery pipelines using Drone on Kubernetes.

Rally Health {scala, microservices, infrastructure}

(rallyhealth.com)

Principal Software Engineer

11/2019 - 04/2021

Senior Software Engineer

06/2016 - 11/2019

Software Engineer

09/2015 - 06/2016

- Architected and developed greenfield user facing microservice based applications in Scala using the Play framework.
- Managed production deploys, served on-call rotations, supported 24/7 live site.
- Designed and optimized ETL pipelines using Akka Streams, accelerating data ingestion velocity and increasing data quality standards.
- Built internal developer tooling including sbt plugins, focusing on automation.
- Instrumented performance and live site monitoring metrics with Datadog, increasing observability and reducing application downtime.
- Implemented security engineering goals with a focus on user privacy; hardened applications against known and anticipated abuse cases.
- Mentored and leveled up numerous junior developers.

George Mason University {python, django, open source}

(honorscollege.gmu.edu)

Lead Project Developer

08/2013 - 01/2015

- Designed and built a collaborative research tool in Python with Django.
- Maintained multiple Linux servers hosting online content.

Harmonia {java, machine learning}

(harmonia.com)

Programming Consultant

06/2012 - 06/2013

- Created components of a learning classifier engine.
- Designed and implemented complex graphical user interfaces.

Education

M.S. Computer Science, Georgia Institute of Technology

01/2017 - 12/2018

B.S. Computer Science, George Mason University, *summa cum laude*

08/2011 - 06/2015

Publications

2015 ACM doi.org/10.1145/2787622.2787723

2014 ACM doi.org/10.1145/2688204.2688207

2014 IEEE doi.org/10.1109/IC2E.2014.42