

Michel Rouly

Washington, DC

email michel@rouly.net git github.com/jrouly
web michel.rouly.net gpg 0x1DFE3B2C

Skills

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

Work

Zephyr AI {python, machine learning, healthcare} [\(zephyrai.bio\)](https://zephyrai.bio)
Principal Software Engineer **04/2021 - present**

- Implemented multiaccount AWS cloud architecture with data and access segregation.
- Configured continuous integration and delivery pipelines using Drone.
- Orchestrated complex data processing graphs with Dagster and Python.

Rally Health {scala, functional, microservices, healthcare} [\(rallyhealth.com\)](https://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, education, open source} [\(honorscollege.gmu.edu\)](https://honorscollege.gmu.edu)
Lead Project Developer **08/2013 - 01/2015**

- Developed peer-review research aid for university students.
- Maintained multiple Linux servers hosting online content.
- Collaborated with research mentors to increase service value.

Harmonia {java, machine learning} [\(harmonia.com\)](https://harmonia.com)
Java Programming Consultant **06/2012 - 06/2013**

- Created components of a Learning Classifier engine.
- Collaborated with project manager on systems architecture design.
- 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