

Michel Rouly

37.66N, -122.27W

web michel.rouly.net github [jrouly](#) gpg [0x1DFE3B2C](#)

Skills

languages scala, python, typescript, javascript, java
libraries pandas, sklearn, play, akka, cats
data sql, dagster, postgres, elasticsearch, redis
devops kubernetes, docker, terraform, helm, cdk, 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

Software Architect

04/2021 - present

- Designed, implemented, and maintained unified data and machine learning platforms supporting the rapid development and iteration of AI enabled precision medicine products.
- Coordinated architectural design and technical development across heterogeneous teams and projects, thereby identifying opportunities for collaboration and preventing silos.
- Facilitated orchestration of complex data and model graphs with Dagster and Python.
- Designed and supported multiaccount AWS cloud architecture managed as code with Terraform.
- Coordinated data and technical governance strategies within a highly regulated space.

Rally Health {scala, microservices, infrastructure}

rallyhealth.com

Principal Software Engineer

11/2019 - 04/2021

Senior Software Engineer

09/2016 - 11/2019

Software Engineer

09/2015 - 09/2016

- 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.

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