Michel Rouly

Washington, DC

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Skills

languages	scala, python, java, javascript, typescript, sql
libraries	sklearn, pandas, play, akka (streams, actors), alpakka, cats, react
data	dagster, postgres, elasticsearch, redis, hdfs
devops	kubernetes, docker, terraform, helm, jenkins, datadog
aws	IAM, SSO, Cognito, EKS, EC2, RDS, Neptune, S3, Route53, VPC
etc	bash, git, sbt, npm, gpg, svn, openAPI

Work

Zephyr AI {python, machine learning, healthcare}   (zephyrai.bio)
Principal Software Engineer   **04/2021 – present**

- Designed, deployed, and maintained Kubernetes cluster on AWS EKS with Terraform.
- Implemented continuous delivery from source code to production using GitLab pipelines.
- Architected and implemented complex data processing graphs with Dagster and Python.

Rally Health {scala, functional, microservices, healthcare}   (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)
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)
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