

Mattia Righetti

JUNIOR SOFTWARE ENGINEER

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Summary

I am a junior software engineer deeply interested in backend services, performance optimization, data structures and algorithms and I often find myself writing frontend logic for most of my personal projects. I have maintained and deployed most of my software, developed lots of different services and applications and I've been exposed to the most used tools in the industry. I have a very good understanding of Unix systems, microservices, networking, CI/CD pipelines and good knowledge of computer security in general. I have worked on large teams of engineers to solve a lot of different problems, I take ownership and I'm always trusted among my teammates for my dedication and effort in delivering great software.

Experience

Amazon

Luxembourg

SOFTWARE DEV ENGINEER INTERN

June 2022 - December 2022

- Developed and optimized new backend APIs that impacted many different teams and automated most of the interactions that other teams had with our service, making it faster, more efficient, much more available and paved the way for new features and ideas sparked from wider access to the service
- Developed a web application interface using Go and server-side rendering to showcase our backend API to other teams and which also turned out to be extremely valuable to onboard people on our APIs
- Deployed and maintained OSRM service on AWS EC2 instance that freed the team from other internal API limitations and also enabled a finer grained control of crucial parameters that improved the value delivered to our customers
- Data pipelines management and data manipulation with Apache Airflow, AWS Glue and AWS ECR. Improved parallelisms of data transformation pipelines making them a lot more faster, cheaper and increased overall throughput of data
- Setup multiple pipeline to manage CI/CD of services with the use of AWS CDK and AWS CloudFormation

Politecnico di Milano

Milano, Italy

DEVOPS/FULLSTACK DEVELOPER

June 2018 - September 2021

- Designed and maintained MySQL database, implemented scheduled jobs to periodically backup data and upload it to dedicated S3 bucket
- Developed webapp frontend with HTML and CSS, later moved to Vue
- Developed backend REST APIs with Go and Node.js to feed models data to the frontend webapp
- Setup NGINX daemon to serve frontend content and route APIs requests to internal Docker network
- VPS administration and maintenance including domain registration and networking setup

Skills

PL Rust, Go, Python, C, Java, Javascript, Typescript, Bash, Swift, Protobuf

Database MySQL, Postgres, PostGIS, SQLite, DynamoDB, Aurora

Other Docker, NGINX, Redis, AWS EC2, AWS S3, AWS Glue, AWS CloudFormation, AWS ECR, AWS Fargate, AWS Lambda

Education

Politecnico di Milano

Milano, Italy

BACHELOR IN COMPUTER SCIENCE AND ENGINEERING

September 2019

Politecnico di Milano

Milano, Italy

MSC IN COMPUTER SCIENCE AND ENGINEERING

Expected graduation year: 2022

Projects

All the projects listed below can be found on my GitHub profile along with all my other projects.

Model Driven Development of blockchain web apps

- Hyperledger Fabric
- Generation of web application code that need to rely on blockchain technology

webex-dl & teams-dl

- Both developed in bash for fun and learning purposes
- Multi-process command line utility to download webex/teams recorded videos hosted on the Politecnico di Milano server

HNReader for macOS

- macOS
- Developed in Swift
- Hacker News native reader

Ulry

- iOS
- Developed in Swift, Rust and Objective C
- Read it later native application

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