

Demetrio Carrara

DevOps Engineer, Web Developer, Development Tools Enthusiast

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Languages

- Italian (native)
- English (fluent)
- German (A1, but learning :))

Education

09/2018 - 07/2020

USI, Lugano (CH)

Msc. in Informatics (Double degree with Milano-Bicocca)

Graduated with 110/110 cum laude. Attended in English.

Thesis work: Graph Neural Network predicting Free Energy value of a molecular conformation.

Relevant courses: Software Analytics, Visual Analytics, Cyber-Physical Software Engineering.

09/2015 - 07/2018

UNIMIB, Milan (IT)

Bachelor in Computer Science

Graduated with 110/110 cum laude.

Thesis work: Natural Language Processing in Word Sense Disambiguation.

Work history

06/2022 - current

Tamedia, Zurich (CH)

Site Reliability Engineer

Part of the Platform Engineering team; making sure thousands of internal users and millions of readers are served with a fast, reliable and secure platform.

- Management of cloud (AWS) infrastructure using Terraform, CloudFormation and Kubernetes
- Workload deployments using CircleCI and Github Actions (own runners setup Authenticated via OpenIDConnect)
- Infrastructure and application performance monitoring with Datadog/Prometheus stack (Prometheus, AlertManager, Grafana)
- Automated alerting for critical issues through PagerDuty (on-call rotation 24/7)
- Testing system resilience via Chaos Engineering best practices (AWS FIS)
- Implementing infrastructure security best practices following reports by Lacework

07/2020 - 05/2022

OperCredits, Zurich (CH)

DevOps Engineer

Responsible of infrastructure creation for the onboarding of new customers on the product and maintenance for the current ones, in a dedicated tenancy setup. Used technologies: Terraform (Infrastructure as Code), AWS/GCP Cloud, K8s, Postgres

Applied DevOps principles by implementing:

- continuous testing/building (Gitlab CI, own runners setup)
- continuous deployment (using Helm, Kubernetes and Docker)

Designed and implemented review environments for early bug detection/feature testing:

- dynamic infrastructure creation and destruction (Terraform)
- easy UI interaction via Slack (for non-technical people interaction)

Built internal application to compare and push database configuration across multiple tenants in order to:

- increase predictability and similarity between staging and production envs
- drastically reduce manual configuration workload

Automating and versioning (Git) as much as possible (trying to apply GitOps principles)

02/2018 - 08/2019

2program, Milan (IT)

Web Developer

Worked in my free time while studying at university.

Designed and implemented web applications with (OAuth, Stripe payments) both front and back end using VueJS and Laravel.

05/2018 - 08/2018

Google Summer of Code

Open Source Web Developer

Reimplementation of WikiToLearn website:

- linked VueJS frontend with the microservice-oriented Java backend
- Optimized performance and implemented unit/end-to-end testing using Cypress

06/2012 - 08/2018

Albergo Ristorante Luisella, Bergamo

Barista (on the weekends while studying)

Commonly-used programming languages:

In love with:

Bash, Python, Javascript, Node.js

Svelte, Terraform, Laravel