Demetrio Carrara

DevOps Engineer, Web Developer, Development Tools Enthusiast

Location   Zürich, Switzerland
Website   sgametrio.page
E-mail   carrarademetrio@gmail.com
Github   github.com/sgametrio
Linkedin   linkedin.com/in/demetrio-carrara-051ab612

Languages
- Italian (native)
- English (C1, certification)
- German (less than 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 model attributing the correct meaning to words in sentences, using graph theory and based on the local context.

Work history

07/2020 - current
OperCredits, Zurich (CH)

DevOps Engineer
Owner of infrastructure and networking creation, and maintenance of the product, in a dedicated tenancy setup.
Relevant technologies: Terraform (Infrastructure as Code), AWS/GCP Cloud, K8s

Application of DevOps principles as much as possible in the company:
- continuous testing/building (Gitlab CI, own runners)
- continuous deployment (using Helm, Kubernetes and Docker)

Implementation of review environments for early bug detection/feature testing:
- dynamic infrastructure creation and destruction
- easy UI interaction via Slack (for less experts)

Built internal application to compare and push configuration across multiple environments, on same or different tenants in order to:
- increase predictability and similarity between staging and production
- reduce manual configuration workload

Automating and versioning (Git) as much as possible.

02/2018 - 08/2019
2program, Milan (IT)

Web Developer
Worked in my free time while studying at university.
Designed and implemented complex 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

Barman