Dario Curreri   *dariocurr@gmail.com*   *dariocurr.github.io*   ○ in 🎓

Innovative Staff Software Engineer (DevOps & Platform) with over 5 years of experience architecting cloud-native distributed systems, delivering enterprise-scale software solutions, and optimizing high-performance data processing pipelines

Demonstrated expertise in designing resilient microservices architectures, implementing robust CI/CD automation, and leading high-performing engineering teams to successfully deliver mission-critical projects with significant business impact

Experience

hiop   10/21 - Today

Staff Software Engineer (01/23 - Today):

- Co-created the company's flagship high-performance data processing platform, enabling rapid delivery of high-value data products:
    - Designed and implemented a resilient event-driven architecture supporting high-volume, low-latency data flows using *gRPC*, advanced concurrency models and distributed processing
    - Built a state-of-the-art access layer based on *OAuth2* authentication RBAC
    - Implemented a zero-trust architecture through a distributed proxy layer and fine-grained, service-level authorization
    - Added full *Language Server Protocol (LSP)* support, improving developer experience and enabling richer ecosystem tooling
    - Increased query engine performance by 50% by rewriting critical components in Rust
    - Automated user onboarding and resource provisioning, significantly reducing operational overhead
- Architected and automated CI/CD pipelines and the end-to-end SDLC workflow, improving deployment reliability, reducing release times from days to minutes, and enabling continuous delivery across multiple services
- Led technical direction and team evolution, mentoring engineers and driving processes that supported growth from 5 to 20+ team members

Junior Software Engineer (10/21 - 12/22):

- Co-created the framework and infrastructure for real-time ML/DL applications, enabling low-latency inference and robust production deployments
- Developed and maintained 20+ core libraries powering the company's internal toolchain, establishing shared abstractions, coding standards, and scalable development practice

JuniorFull Stack Developer @ *CNR's Institute of Biophysics*   12/20 - 08/21

Developed from the ground a Python and JS-based web application named *NeuroFeatureExtract* to analyse electrophysiological features as part of the *Human Brain Project*

Others		Open Source
Bioinformatics Trainee @ *ISMETT*	05/21 - 08/21	`apache/datafusion, apache/arrow,`
ML Research Project Collaborator @ *UNINA*	11/19 - 04/20	`envoyproxy/envoy, PyO3/maturin,`
Full Stack Developer Trainee @ *Informamuse*	01/19 - 04/19	`conda/conda`

Education

Double Master in Computer Science @ *UNIPA* & *UGE*   09/19 - 10/21

Graduated cum laude with thesis on *RDF data and columnar formats*

Bachelor in Computer Science @ *UNIPA*   09/16 - 07/19

Graduated cum laude with thesis on *suffix array data structure*

Others		Publication
CMM Pre-doctoral Research School	08/20	*The EBRAINS NeuroFeatureExtract: An Online Resource*
ESS Information Science School	09/19	*for the Extraction of Neural Activity Features From*
Erasmus Exchange @ *ELTE*	09/18 - 01/19	*Electrophysiological Data*

Skills

Certifications	Workflow	Languages
AWS: *Practitioner*, *Developer*	Cloud, DevOps, CI/CD, Git, Docker	Italian: native
GCP: *Digital Leader*	Rust, Python, Node, Java, Scala, C	English: C1
GitHub: *Foundations*, *Actions*, *Advanced Security*	Agile, Leader, Tutor	French: A2
Data Science	Critical-Thinking, Data-Driven, Trusty	