Dario Curreri

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Staff Software Engineer (DevOps & Platform) with 5+ years of experience architecting cloud-native distributed systems and high-performance data pipelines. Strong track record in resilient microservices, CI/CD automation, and leading engineering teams to deliver mission-critical projects

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 agile processes that supported team growth from 5 to 20+ members, while maintaining delivery quality

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 internal toolchain, establishing shared abstractions, coding standards, and scalable development practice among 10+ engineers

Junior Full 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

Bioinformatics Trainee @ *ISMETT*	05/21 - 08/21
ML Research Project Collaborator @ *UNINA*	11/19 - 04/20
Full Stack Developer Trainee @ *Informamuse*	01/19 - 04/19

Open Source

`arrow`, `datafusion`, `iceberg`, `delta`, `envoy`, `conda`, `maturin`, `rust-toolchain`

Skills

Certifications

AWS: *Practitioner*, *Developer*
GCP: *Digital Leader*
GitHub: *Foundations*, *Actions*, *Advanced Security*

Workflow

Cloud, DevOps, CI/CD, IaaC, Git, Docker
Rust, Python, Node, Java, Scala, C
Leader, Tutor, Critical-Thinking, Data-Driven

Languages

Italian: native
English: C1
French: A2

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

CMM Pre-doctoral Research School	08/20
ESS Information Science School	09/19
Erasmus Exchange @ *ELTE*	09/18 - 01/19
Bocconi Logic Games Regional Winner	04/15

Publication

The EBRAINS NeuroFeatureExtract: An Online Resource for the Extraction of Neural Activity Features From Electrophysiological Data