



Aurélien Hervé

PhD, expert cloud engineer & distributed systems architect

Experience

- 2022– **Principal Engineer**, *Bobsled*, Remote
Present Cross cloud Data sharing platform
- Working with all major cloud/data providers (AWS, GCP, Snowflake, Cloudflare, Oracle...)
 - Focus on infrastructure, security, and distributed systems governance for a cross-cloud, serverless architecture
 - typescript, terraform...
- 2021–2022 **CTO, cofounder**, *Exomodule*, Remote
Biotech computation platform that allowed scientists to run DNA analysis software in the cloud.
- AWS native architecture design & implementation
 - Serverless architecture to orchestrate and run DAGs of biotech software. appsync, graphql, lambda, dynamoDB, terraform, docker, goLang, ECS...
- 2019–2021 **Head of data platform**, *Aircall*, Paris
The phone system for modern business
- Architecture & implementation of a real-time, distributed data-platform with AWS, terraform, lambda, kinesis, dynamoDB, goLang...
 - Design & implementation of distributed algorithms to scale existing features
 - Setting up a data governance to empower all teams (data security, robustness, availability, documentation...)
- 2015–2019 **CTO**, *Hunteed*, Paris
Hunteed is a digital recruitment marketplace. I Designed & implemented the whole solution from scratch:
- Data-modeling
 - Real-time Infrastructure & devOps with AWS, Docker, CodeShip...
 - 4 angular webapps
 - 1 node-express api (typescript)
 - Design & implementation of Hunteed's recommendation engine
 - Design & implementation of Hunteed's CRM engine
 - Advanced data analytics
- 2014–2015 **CTO, cofounder**, *Shapter*, Paris
Shapter used to help students to choose their studies thanks to alumni feedbacks and an innovative recommendation engine
- Ruby-on-Rails api
 - Real-time recommendation engine
 - DevOps
- 2012–2014 **Head of R&D**, *adomik*, Paris
I bootstrapped the very first algorithms and big data infrastructure of adomik
- Hadoop-stream (using ruby-written algorithms)
 - Big data infrastructure design and creation (AWS hadoop, dynamodb, redshift, ec2... etc)

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Skills

cloud **AWS, GCP**, Serverless, distributed systems, Snowflake, OracleCloud
languages **go, Typescript**, ruby, javascript, fortran
infra/DevOps **terraform**, Docker
dataStores **DynamoDB, firebase**, mongoDB, redis, SQL

Formation

2012 **PhD in fundamental fluid mechanics**, *Ecole Polytechnique / ONERA*, Paris
2009 **Master of engineering**, *ISAE ENSMA*, Poitiers
2009 **Master of research in fluid dynamics**, *Université de Poitiers*, Poitiers

Publications

research **PhD Thesis**, *Controle optimal en boucle fermee d'instabilites hydrodynamiques par identification de modeles reduits*
JFM Publication, *A physics-based approach to flow control using system identification*

Languages

French	<i>native</i>
English	<i>fluent</i>

Hobbies

Music, chess, windsurf, fencing...