Aurélien Hervé

PhD, expert cloud engineer & distributed systems architect

Experience

2019–today **Staff Engineer**, *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 recruitement 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 (written in 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
I rewrote from scratch the backend and devOps:
- Design & implementation of a Ruby-on-Rails api from scratch
- Data-modeling
- Design & implementation of a real-time recommendation engine
- DevOps

2012–2014 **Head of R&D**, *adomik*, Paris.
I bootstraped the very first algorithms and big data infrastructure of adomik
- Hadoop-stream (using ruby-written algorithms)
- Data visualization with Ruby on Rails
- Big data infrastructure design and creation (using AWS hadoop, dynamodb, redshift, ec2. . . etc)

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.
2004–2006	**Classe préparatoires MP**, *Lycée Charlemagne*, Paris.
2004	**Baccalauréat Série S**, *Lycée Charlemagne*, Paris.

Skills

languages	**go**, **terraform**, Typescript, ruby, javascript, fortran
[big]data	**real-time distributed systems**, **map/reduce algorithm design**, Hadoop, data-modeling, spectral clustering
infra/DevOps	**AWS, Docker, terraform**
dataStores	**DynamoDB**, mongoDB, redis
web	node, express, angular, ruby-on-rails

Publication & open-source projects of interest

research	**PhD Thesis**, *Contrôle optimal en boucle fermée d'instabilités hydrodynamiques par identification de modèles réduits* ⟲.
	JFM Publication, *A physics-based approach to flow control using system identification* ⟲.
blog	**hackernoon publications**, medium.com/@aherve.
	○ Having Fun With Functional Programming ⟲
	○ Basic javascript algorithms toolbox: starter kit ⟲
	○ How we happily dockerized our development environment ⟲
	○ Bro, do you even map?—MapReduce demystified ⟲
	○ Installing git hooks in a dockerized environment ⟲
github	**open source projects**, github.com/aherve.
	○ giflichess: turn your chess game into an animated gif ⟲
	○ docker-nodemon: a light dockerized dev environment to work with docker & typescript ⟲
	○ typescript-express-docker: boostrap your node-express-typescript api ⟲
	○ ngx-compact-number: angular lib to display numbers in a compact way ⟲

Languages

French	*native*
English	*fluent*

Hobbies

Music, chess, windsurf, fencing. . .