Didier Marin

Software & Data Engineer, Tech Lead, PhD in AI

`https://didiermarin.com/contact`

Work Experience

2013/09-2022/09 Technical Expert and Partner; Heuritech, Paris, France

Heuritech offers fashion brands predictive analytics on trends and products. As part of the founding team, I have played a strategic role leading software and data engineering on Heuritech's most challenging projects.

- **Lead dev, Core Data Pipeline**: processing 3M+ social media posts/day with Deep Learning-based image analysis (Python, Prefect, MongoDB, BigQuery, FastAPI)
- **Tech lead managing 12 people**: project management (Scrum master, JIRA), technical decisions, best practices and code quality guidelines, CI processes (Gitlab CI)
- **Lead dev, Data Analytics Platform with Natural Language Processing (NLP)**: processing connection logs from +700 top French websites (200M events/day) to extract topics of interest using inhouse NLP models, for digital marketing campaigns (Scala, Play Framework, Spark, Cassandra)

2009/10-2013/08 Researcher and Teaching Fellow; Institute of Intelligent Systems and Robotics (ISIR), Paris, France

- Conception of a Reinforcement Learning-based (RL) adaptive control system for sit-to-stand assistance on a smart walker robot, tested with patients in a geriatric center (*European project AAL DOMEO*) (Python, C, Arduino, ROS, OROCOS)
- Modeling human motor control on a reaching task using RL, Imitation Learning and Evolutionary algorithms (Java, Python)
- Trainee supervision and teaching assistant for an international MSc in rehabilitation robotics

Education

2009-2013   **PhD, Artificial Intelligence**; Sorbonne University, Paris, France

2007-2009   **M.S., Artificial Intelligence**; Sorbonne University

Skills

Programming Languages and Frameworks	**Python** (12 yrs XP): Numpy, Pandas, Flask, FastAPI, Pydantic, Prefect
	Scala / Java (4 yrs XP): Apache Spark certified developer, Play Framework
	Javascript / Typescript (personal projects): React, Material UI, Ionic, Firebase
Databases	**PostGreSQL**, **MongoDB**, **Cassandra**, **ElasticSearch**
Cloud	**GCP** (BigQuery), **AWS**
Tools	**GNU Linux**, **Docker**, **Kubernetes**, **Gitlab CI**, **JIRA**
Languages	**French** (native), **English** (fluent), Japanese (limited working proficiency), German (notions)