Paul MARTINS

Data / Software Engineer

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Data engineer with professional experience in consulting and digital marketing. Productionised diverse ML models to solve complex business challenges and enhance decision making processes. Participated in the development of several smart web-based applications. Knowledge of software development methodology and skilled to work in a devops environment. Embrace the open-source community and always curious about the latest tools and innovations in data science.

⊟ TECHNICAL SKILLS

Programming	**Python :** numpy, pandas, sklearn, boto3, luigi, dask, django, fastapi, ...
	R : data.table, tidyverse, ggplot, plotly, Rmarkdown, leaflet, ...
	Others : C++, bash, HTML/CSS, JS (React), Fortran
	Tools : Docker, AWS, Git, LaTeX
Machine Learning	Regressions, Multilevel models, GLM, Bayesian inference, Ensemble learning, Clustering, Computer vision,...
Business Intelligence	Tableau, Shiny
Database	MySQL, MSSQL, PostgreSQL (+PostGIS)
Systems	Mac OS X, Linux
Office tools	MS Office/ iWorks suites

💼 PROFESSIONAL EXPERIENCE

Present
March 2021

Data Engineer | Manager, DELOITTE LLP., London, UK
contract with AMAZON
Lead the backend development of a web-app designed to help the client visualise the various crime, weather and environmental threats around their assets.
> Built ETL jobs for near-real time data ingestion from several data providers,
> Participate in the development of the python backend API,
> Dockerize all the services (database, backend, frontend, scheduled ETL) to speed up local development and testing.

AWS (ECS) | Python (FastAPI) | PostgreSQL | React | FastAPI | Docker

February 2021
May 2019

contract with VIRGIN MEDIA
Help prototype and develop a smart web-app designed to improve the network expansion process for internet fibre :
> Productionize the training and inference pipelines of a suite of XGBoost models for revenue and market penetration predictions,
> Participate in the development of a clustering module. Refactor and parallelise code to decrease runtime by a couple of hours,
> Code refactoring and features addition to a cost calculator module. Decrease the module runtime from hours to seconds.

AWS (SageMaker - Batch) | R (DBSCAN) | Python (Luigi - Dask) | PostgreSQL | Gitlab | Jenkins

March 2019
August 2017

Data Scientist, SUMMIT MEDIA LTD., London, UK
Responsible of the R&D of Forecaster, a multi-channel marketing intelligence platform
> Codebase modularisation : re-structure, package, test and document legacy production code,
> Database migration testing,
> Development of a bid optimisation module for PPC and PLA ads to maximise online conversions on different audiences,
> Regularly organise and present at knowledge sharing sessions

R | R-INLA | MSSQL | Docker | Git

September 2017
September 2013
	PhD Student, T2K Experiment, London, UK
	Software development, analysis and data visualisation
	  > Features engineering, Bayesian inference, statistical and systematic errors evaluation,
	  > Weekly quality control of the raw data recorded,
	  > Theoretical model implementation in the Monte-Carlo events simulation,
	Demonstrating and marking courseworks for various undergraduate modules
	  > Mathematical Techniques, Nuclear Physics and Astrophysics, Elementary Particle Physics, ...
	`C++` `Python` `Fortran` `ROOT-CERN` `CMT-CVS`

🌐 Languages

English	● ● ● ● ●
French	● ● ● ● ●

➕ Strengths

> Passionate
> Curious
> Dependable

🎓 Education

2013-2017	**Queen Mary University of London**, *PhD in Particle Physics*, London, UK
2011-2013	**Paris-Saclay University**, *Master of Science (MSc) in Fundamental Physics (with honours)*, Orsay, France
2008-2011	**Paris-Saclay University**, *Bachelor of Science (BS) in Fundamental Physics*, Orsay, France

🏆 Accomplishments

Data Science Career Track   May - Jun 2017
DataCamp   See certificate
`Python`

Statistical Learning   Nov 2018 - Mar 2019
Stanford University   See certificate
`R`

Discrete Optimisation   Mar - Apr 2020
The University of Melbourne   See certificate
`Python`

Machine Learning with AWS   May 2020
AWS   See certificate
`Python`

🖥 Extracurricular Activities

Personal Website   Feb 2019 - Present
🖥 www.paul-martins.com
Development of a personal website powered by Hugo web framework and hosted with Netlify.
`HTML` `CSS` `Hugo` `Markdown` `Git` `Netlify`

Sudoku Solver   April 2020
🖥 sudoku.paul-martins.com   ⭘ github.com/paulmartins/sudokuSolverLambda
Development of a small serverless application on AWS that solves sudoku puzzles. Designed with services such as S3, SQS, Lambda, API Gateway, Textract and DynamoDB.
`HTML` `CSS` `JS` `Git` `AWS` `Python`

UN Migration Dashboard   March 2019
🖥 paul-martins.shinyapps.io   ⭘ github.com/paulmartins/shiny_apps
Shiny Dashboard displaying the population migration flows as reported by the UN Department of Economic and Social Affairs.
`R` `Docker` `Shiny`