Nicolas F. Guillaume, MSc.

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SUMMARY

- 5+ years of experience in Data Engineering, Data Analytics and DevOps
- Dual background in mechanical/industrial engineering and management/entrepreneurship/finance
- Main interests: Energy, Blockchain, Transportation, Telecommunication, Robotics
- Core competencies include: Python, Docker, Kubernetes, ETL, API, Machine Learning, Azure, Amazon Web Services (AWS) Certified

WORK EXPERIENCE

2019 – Present	**Data Engineer – DevOps** Engie Digital – *Paris, France* – digital.engie.com Within the Data Science team of the Darwin platform, Engie Digital's largest platform, deployed in 25 countries. • Deployment in production of Data Science web apps and parallelized global data processing jobs to Kubernetes • Automated release of 25+ private Python packages to Artifactory • Unit tests, Code quality and Integration tests using a combination of Jenkins and Azure Devops CI/CD pipelines • Co-developed a Python package to query data from Azure Storage, API, SQL, Apache Spark and Azure Databricks
2018 – Present	**Data Engineer – Independent Contractor** *Paris, France* – www.nicolasguillaume.com • Paylead (Fintech startup, May to July 2019): Data Integration, Flask Restful API, Unit Testing Typical Data Volume: loaded the public SIRENE dataset (10 millions French companies) in PostgreSQL • Consensys (Hackathon, June 2018): development of a smart contract on Ethereum and deployment to testnet See complete list of services at www.nicolasguillaume.com/services
2016 – 2019	**Data Engineer** Deepki – *Paris, France* – www.deepki.com Deepki's SAAS web application turns its customers' existing data into energy savings on their real estate portfolio. • Main activities: Data Integration/ETL/Data pipeline, Data Collection/Data Cleaning, Data Visualization, Web Scraping/Parsing, Automation/Unit Testing, Flask Restful API, Python package deployment • Data stack: Python (pandas, numpy, selenium…), R (dplyr, tidyr…), MongoDB, InfluxDB, AWS (EC2 and S3) • Typical Data Volume: timeseries with monthly frequency over a 5-year timeframe for 40.000 energy meters
2016	**Self-study of predictive data analytics** • Online classes: Machine Learning (Stanford), Exploratory Data Analysis with R (Udacity), Statistical Inference (Johns Hopkins), SQL (Stanford), Marketing Analytics (ESSEC), Strategic Business Analytics (ESSEC) • Projects porfolio on github.com: various Classification, Regression and Recommendation problems, including a web app featuring a recommender system for cooking recipes, with Natural Language Processing • Hackathons: 3rd prize at Engie DataPower Hackathon, Kaggle and Datascience.net projects
2015	**Machine Learning Intern** Lattis – *San Francisco, CA* – www.lattis.io • 4-month hands-on project in Machine Learning. Objective: predict the demand of a public bike-share system for the city of San Francisco. Algorithms: supervised (Random Forests) and unsupervised (k-Means, DBSCAN)
2014 – 2015	**Solar Project Development Manager – Utility-scale solar farms and Energy Storage in California** Pristine Sun – *San Francisco, CA* – www.pristinesun.com
2008 – 2013	**Solar Project Development Manager – Commercial and Industrial solar rooftops in France** EDF Renewable Energy – *Paris, France* – www.edf-renouvelables.com
2007	**Swiss Federal Institute of Technology Master's Thesis** Visiting Scholar at University of California, San Diego (UCSD), Rady School of Management – *San Diego, CA*
2005 – 2006	**Arts et Métiers ParisTech Master's Thesis** Visiting Scholar at University of California, Santa Barbara (UCSB), College of Engineering – *Santa Barbara, CA*

EDUCATION

2008	**MSc. in Management of Technology and Entrepreneurship** EPFL (Swiss Federal Institute of Technology) – *Lausanne, Switzerland,* a Swiss Ivy-league school, Grade: 5.5/6.0
2006	**MSc. in Aerodynamics and Aeroacoustics** – Specialization in Computational Fluid Dynamics & Numerical Simulations University of Paris (Jussieu/Paris VI) – *Paris, France,* Magna Cum Laude
2006	**MSc. in Mechanical and Industrial Engineering** – Specialization in Mechatronics Arts et Métiers ParisTech (Paris Institute of Technology) – *Paris, France,* a French Ivy-league school
Other courses	Python, JavaScript, R, VueJS, Go, AWS, SQL, Redis, Linux… See complete list at www.nicolasguillaume.com/training

SKILLS

Languages	Fluent English, Native French, Russian (5 years), Basic Italian and Spanish (6 months, self-taught)
Soft skills	Problem-solver, Analytical, Persistent, Versatile, Team player, Considerate, Multicultural