

Nicolas F. Guillaume, MSc.

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SUMMARY

- 9+ years in Data Engineering and DevOps on AWS (Certified) and Azure, with a focus on continuous learning and best practices
- Dual background: Mechanical/Industrial Engineering & Management/Entrepreneurship/Finance
- Interests: Energy, Web3/Blockchain/DeFi, Transportation, Telecom, Robotics
- Skills: Python, Node.js, APIs, Data Integration pipelines, Azure DevOps, Terraform, Kubernetes, Docker, CI/CD, AWS and Azure

WORK EXPERIENCE

2018 – Present	Data Engineer – DevOps – Blockchain Engineer (AWS, Azure) Independent Consultant – <i>Paris, France</i> – www.nicolasguillaume.com • Decentralized Finance (2025): Ethereum wallet analysis tool providing insights into trade performance on Uniswap • Paylead (Fintech Startup, May-July 2019): Developed data integration pipelines, Flask Restful APIs, and unit tests Managed the public SIRENE dataset (10 millions French companies) in PostgreSQL • Consensys (Hackathon, June 2018): Built and deployed an Ethereum smart contract on a testnet, winning a prize
2019 – 2024	DevOps Engineer – Azure ENGIE Digital – <i>Paris, France</i> – www.engie.com Part of the Data Science team for Darwin, ENGIE Digital's largest platform, deployed in 25 countries. • Deployed in production web apps and parallelized large-scale data processing jobs to Kubernetes, using Terraform • Release management: automated the releases of 25+ private Python packages to Artifactory • Implemented CI/CD pipelines (Jenkins, Azure DevOps) for unit tests, code quality, and integration tests • Co-developed a Python package to query data from Azure Storage, APIs, SQL, Apache Spark and Azure Databricks • Managed time-series with 10-min frequency spanning 15 years for 3.000+ wind turbines
2016 – 2019	Data Engineer – AWS Deepki – <i>Paris, France</i> – www.deepki.com Deepki's SAAS application helps clients achieve energy savings by analyzing real estate data. • Led data integration, ETL, pipeline development, data cleaning, and visualization • Implemented web scraping and parsing, automation, unit testing, Flask Restful APIs, Python package deployment • Data stack: Python (pandas, numpy, selenium), R (dplyr, tidyr), MongoDB, InfluxDB, AWS (EC2, S3) • Managed time-series with monthly frequency spanning 5 years for 40.000+ energy meters
2016	In-depth self-study of Data Science • Online courses (6 months): Machine Learning (Stanford), Exploratory Data Analysis with R (Udacity), Statistical Inference (Johns Hopkins), SQL (Stanford), Marketing Analytics (ESSEC), Strategic Business Analytics (ESSEC)... • Projects (3 months): Built a portfolio on github.com with various classification, regression and recommendation models, including a web app with a recommender system for cooking recipes (NLP) • Hackathons: 3rd prize at ENGIE DataPower Hackathon, Kaggle and Datascience.net projects
2015	Machine Learning Intern Lattis – <i>San Francisco, CA</i> – www.lattis.io • 4-month hands-on project to predict demand for a public bike-share system • Applied supervised (Random Forests) and unsupervised (k-Means, DBSCAN) algorithms using scikit-learn (Python)
2008 – 2015	Solar Project Development Manager – Utility-scale solar farms, solar rooftops and Energy Storage Pristine Sun – <i>San Francisco, CA</i> – www.pristinesun.com EDF Renewable Energy – <i>Paris, France</i> – www.edf-powersolutions.com
2007	Swiss Federal Institute of Technology Master's Thesis Visiting Scholar at University of California, San Diego (UCSD), Rady School of Management – <i>San Diego, CA</i>
2005 – 2006	Arts et Métiers ParisTech Master's Thesis Visiting Scholar at University of California, Santa Barbara (UCSB), College of Engineering – <i>Santa Barbara, CA</i>

EDUCATION

2008	MSc. in Management of Technology and Entrepreneurship EPFL (Swiss Federal Institute of Technology) – <i>Lausanne, Switzerland</i> , 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) – <i>Paris, France</i> , Magna Cum Laude
2006	MSc. in Mechanical and Industrial Engineering – Specialization in Mechatronics Arts et Métiers ParisTech (Paris Institute of Technology) – <i>Paris, France</i> , a French Ivy-league school
Other courses	Python, R, JavaScript, VueJS, Go, Rust, AWS, SQL, Databricks... See more at www.nicolasguillaume.com

SKILLS

Languages	Fluent English, Native French, Russian (B2), Italian (B1) and Spanish (B1)
Soft skills	Problem-solver, Analytical, Persistent, Versatile, Team player, Knowledge sharer, Considerate, Multicultural