

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, Kubernetes, Docker, CI/CD, AWS and Azure cloud services

WORK EXPERIENCE

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| 2018 – Present | Data Engineer – DevOps – Blockchain Engineer (AWS, Azure) Independent Consultant – Paris, France – www.nicolasguillaume.com/services <ul style="list-style-type: none">• 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 – Paris, France – digital.engie.com Part of the Data Science team for Darwin, ENGIE Digital's largest platform, deployed in 25 countries. <ul style="list-style-type: none">• Deployed in production Data Science web apps and parallelized large-scale data processing jobs to Kubernetes• Automated 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 – Paris, France – www.deepki.com Deepki's SAAS application helps clients achieve energy savings by analyzing real estate data. <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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 – San Francisco, CA – www.lattis.io <ul style="list-style-type: none">• 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 – San Francisco, CA – www.pristinesun.com 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

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| 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, R, JavaScript, VueJS, Go, Rust, AWS, SQL, Databricks... See more at www.nicolasguillaume.com/training |

SKILLS

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| 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 |