Zihao-Éric GUO

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📱 +33 (0)765241550
📍 Paris, France
🏅 Kaggle Expert
🏠 Welcome to my homepage

IT SKILLS

Python (NumPy, Pandas, Sklearn, PyTorch, Plotly), R, C/C++, NoSQL, MATLAB, Power BI, Catia, CAD

Mathematics for engineers, Algorithms & Programming, Physics and Fluid Dynamics, Databases, Management, Profitability of progress tools, Data Science & Machine Learning, Optimization, Signal and Systems, Robotics, Biological and medical aspects of human health

LANGUAGES

- **Chinese**: Native language
- **English**: Fluent (GRE 326)
- **French**: Fluent (DALF C1)
- **Spanish**: Beginners

INTERESTS

Aces

- *Team spirit;*
- *independence and adaptability;*
- *High learning capacity.*

Student engineer at École Centrale de Nantes
Interested in: Data mining, Explainable AI, Machine Learning

Data Engineer | Data Scientist

🎓 EDUCATION

Since 09/2021
Nantes, France

École Centrale de Nantes
Generalist Engineer Degree - Applied Mathematics Options
Expected graduation date: 10/2023

10/2020 – 07/2021
Amiens, France

Université de Picardie Jules Verne
Bachelor of Engineering, Production Optimization Tools
- Top-ranking, in charge of coordinating teachers and Chinese students in need.

Shenyang Aerospace University
Bachelor of Engineering, Mechanical Design, Manufacturing and Automation

09/2017 - 10/2020
Shenyang, Chine
- The average GPA : 3.5/4, Top 3%, outstanding college students in Shenyang area.
- The experience as Student Council President.

🚩 PROJECT EXPERIENCE AND INTERNSHIP

2022
Paris,
France

Internship – Data engineer（IFPEN）
04/2022 – 08/2022
- Analysis of traffic badge validation data and create a dashboard.
- Comparison of data obtained from a traffic model (MATSim) to explore errors.
- Using time series models (Sarimax, Neuralprophet...) to analyze the impact of influencing factors and correct the statistics by predicting the data.

Keywords: Django, HTML/CSS, MongoDB, Git, Pytorch, Statsmodels

2021
Nantes,
France

Project – Genetic code and pathogenic mutations in R
02/2022 – 03/2022
- Perform sequence analyses on PKD patients.
- Identify mutated genes by manipulating sequences and sequence features.

Keywords: R language (Seqinr, Shiny), Bioinformatics

2021
Nantes,
France

Project - Analysis of Tencent product user churn
11/2021 – 01/2022
- To predict the user churn rate and provide a foundation for the churn recovery strategy.
- A classification model is developed, the model is evaluated with roc_auc_score, and the parameters are tuned with GridSearchCV.

Keywords: Sklearn, Machine Learning

2020
Shenyang,
Chine

Project – Build a student management system
12/2019 – 02/2020
- Built in VC++ 6.0, Windows platform, utilizing the C language.
- Using structures to encapsulate variables and chained tables for modification operations makes it easier to manage fundamental student information.

Keywords: C language, OOP

🏆 SCIENTIFIC RESEARCH EXPERIENCE

Since 10/2022
Nantes, France

Research - Adjustment of Bayesian network library
Nantes Digital Science Laboratory (LS2N)
Keywords: C++, Git, Linux

Essay - CNN text classification method based on simulated annealing method
ACM - International Conference Proceeding Series (ISBN: 978-1-4503-8432-2)

Essay - Mechanical gyroscope based one-rotor aircraft modification design
Fortune Time (2019.04), ISSN：1004-0447

Competition - Based on non-stationary thermal conductivity, the design of special garments for high-temperature operations
2019 China Mathematical Modeling Competition Second Prize in Liaoning Province