

# Raphael PERRI

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Double-Degree at Tsinghua University and Ecole Centrale de Nantes

## KEY ACHIEVEMENTS

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- **Ranked in the top 5% of the nationwide selection** after 2-year French preparatory classes.
- **Raised €10,000** to build more than 50 homes in Vietnam with a humanitarian association
- Graduated to a **7-percent-success-rate test** (800 participants) to become an auditor at the CNJE
- Selected to the final of a 350-participant contest with an engineering project
- Helped 700 students to get involved in an association by **organizing a 30+ associations forum**

## EDUCATION

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### Tsinghua University – Master of Advanced Computing

Beijing, China

**#1 best school in Asia and #5 worldwide** in Computer Science by Shanghai ranking 2022

2022 – 2024

- Machine Learning, Deep Learning, Natural Language Processing
- Algorithm design, Distributed Systems, Databases
- **12-month Master's Thesis:** Deep Learning for Drug Discovery

GPA 3.80/4.0

### Ecole Centrale de Nantes – Master of Engineering, Applied Mathematics

Nantes, France

**#4 best French Engineering School** by l'Etudiant 2019

2019 – 2024

- Machine Learning and Statistics (Regression, Classification, Deep Learning)
- Probabilities and Stochastic processes (Monte Carlo, Random Linear Algebra)
- Numeric Analysis (Partial Differential Equations, Stochastic Differential Equations)
- **One-year project:** European option pricing using the Black-Scholes model combined with NN

GPA 3.80/4.0

### Lycée Fabert, FRANCE – Preparatory Classes (2017 - 2019)

Intense program preparing for the national competitive exams for entry in the French Schools of Engineering.

GPA 3.99/4.0

## PROFESSIONAL EXPERIENCES

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### Simon-Kucher & Partners

Geneva, SWITZERLAND

Associate Consultant

March – July 2022 (5 months)

- Participated in the repricing of a Swiss private bank **generating a 20% revenue increase (mCHF 4.2)**
- Provided insights on the different streams of revenues of the bank by **analyzing client data**
- **Determined potential opportunities for the bank** and compared it to its competitors by conducting a benchmark of Swiss private banks
- **Designed a foreign exchange (FX) dashboard** for the top management to give visibility on forex revenue and an easy call to action.

### BMW Group

Munich, GERMANY

Data Science/Engineering Intern

September 2021 – February 2022 (6 months)

- **Reduced the cost of cloud infrastructure by 20 %** through the management of the whole lifecycle of data pipelines using Infrastructure as Code with Terraform
- Analyzed the root cause of quality problems of powertrain components in the development phase with **Machine Learning models** (unsupervised, semi- and supervised algorithms)
- Automated the detection of outliers by building a **fully automated Machine Learning pipeline on AWS**

### Allianz

La Défense, FRANCE

Data Engineering Intern

April – August 2021 (5 months)

- Increased the Actuarial & Risks team's productivity by 80% during closings by implementing Python scripts to automate processes – Agile development
- **3-month project:** Building a fraud detection Machine Learning algorithm

## SKILLS & EXTRACURRICULAR ACTIVITIES

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- **Languages:** fluent English, native French, intermediate Spanish, and beginner Chinese (HSK 2)
- **Programming Skills:** Python, R, Matlab, SQL, AWS, Terraform
- **President of a Junior-Enterprise:** 25,000€ of income through the management of a team of 20+ people
- **Volunteering:** Vice-President of charity Récup'Eau Vietnam raising €10,000 p.a. for an isolated village