John Doe

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🔗 unmoutonperdu.github.io 💼 hugo-mouton- ⌨ UnMoutonPerdu

Education

Polytechnique Montréal *Montréal, QC, CA*
M.Eng. in Computer Science *Sept 2023 - Now*

- GPA: 3.8/4.0
- Recruited on results through ISAE-SUPAERO
- Double degree with ISAE-Supaero
- **Coursework:** Unsupervised Learning and Time Series, Stochastic Processes, Deep Learning, Machine Learning, Artificial Intelligence: Methods and Algorithms, Natural Language Processing, Graph and flow theory

ISAE-Supaero *Toulouse, FR*
M.Sc. in Aerospace Engineering *Sept 2021 - Now*

- GPA: 3.8/4.0
- Recruited through the Mines-Ponts competitive examination
- General engineering cycle, common scientific core in mathematics, physics, flight and materials mechanics
- **Coursework:** Fluid mechanics, Strength of materials, Artificial intelligence, Computer language paradigms, Advanced topics in mathematics

Lycée Louis Le Grand *Paris, FR*
Preparatory Class *Sept 2019 - Sept 2021*

- MPSI then PSI* student
- Admitted to the preparatory class after passing the French science baccalaureate with distinction

Research Experiences

Research Internship *Palaiseau, FR*
École polytechnique computer laboratory (LIX) *April 2023 - July 2023*

- Verification of neural network-based controllers
- Approximation and compression of ReLU-based neural networks
- Propagation of tropical polyhedra through a neural network
- Implementation of a library for modeling tropical polyhedra and study their propagation (GitHub repository ↗)

Professional Experiences

Software Development Internship *Castanet-Tolosan, FR*
Boréal SAS *July 2022 - August 2022*

- Preparation of flight missions
- Drone monitoring during flight
- Development of a flight data analysis tool
- Development of a graphical user interface for presenting results

Computer center console team leader   *Toulouse, FR*
ISAE-Supaero   *March 2022 - March 2023*

- Service to computer center users
- Management of the console operator team, maintenance and formation
- Supervision of ISAE-SUPAERO's IT equipment in conjunction with teaching staff
- Helping to set up lectures, practical courses and activities linked to the master's program

Honors and Awards

- Finalist in the Prologin 2022 competition
- Finalist in the French Robotics Cup with the ISAE-Supaero team in 2022 and 2023
- Recipient of the Fondation Georges Besse Excellence Scholarship since 2021

Activities

ISAE-Supaero Sports Association — Internal Communications Manager   *Toulouse, FR*
ISAE-Suapero   *February 2022 - February 2023*

- Maintaining relations between clubs and the association
- Search for partnerships for sporting events
- Automation of registrations and payments in conjunction with the association
- Website restructuring and maintenance (AS ISAE-Supaero website ↗)

President of the robotics club   *Toulouse, FR*
ISAE-Suapero   *May 2022 - May 2023*

- Find partners to finance the club
- Team management
- Formation of new club members in their respective poles

Skills

Languages:

- **French:** Native
- **English:** Fluent - TOEFL: 95/120 (Reading:26, Listening:25, Speaking:20, Writing:24)
- **Spanish:** Academic level

Programming languages: Python, C, C++, Java, R, Scala, Prolog, OCaml, Matlab, HTML/CSS/JavaScript, SQL

Technologies: Microsoft 365, TIBCO Statistica, LaTeX, Linux
Engineering Skills: Problem solving - Machine Learning - Analytical skills - Data science

Projects

Simulation of particle collisions   *GitHub repository ↗*
                                                                      Post on my blog ↗

- Developed basic implementation of a simulation of the movement of particles confined in a box supposing subjected only to elastic collisions
- Two Implementations in C using SDL