

Augustin Bresset

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SUMMARY

I am drawn to research and mathematics, with a strong interest in solving complex computational problems and finding creative, out-of-the-box solutions. Currently pursuing an M.Sc. in Data Science at **École Polytechnique** (focus: Probability, Statistics, Optimization) and an Engineering degree at **Télécom SudParis**.

WORK EXPERIENCE

Software Engineer Intern — Rubicon (Bangkok, Thailand) May 2025 – Aug 2025

- Migrated all internal management software (ERP) from a proprietary system to **Odoo 18 Community**.
- Designed and implemented robust **database** models and automated import scripts for production and pricing systems.
- Improved scalability, modularity, and reliability of the company's digital tools.

Research Intern — ENSTA Paris (Palaiseau, France) Sept 2024 – Feb 2025

- Conducted a literature review on **SLAM using LiDAR and IMU**.
- Processed robotic datasets and explored **traversability modeling**.
- Used **ROS** and **PyTorch** for model testing and data fusion.

Software Intern — Upfund (Paris, France) Jun 2023 – Aug 2023

- Developed web applications using **Angular CLI** and **Django**.
- Improved API integration and data visualization for financial technology tools.

PROJECTS

Swarm Rescue Challenge 2025 Janurary – March 2025

- Participated in a coding competition organized by **CIEDS** and **ENSTA Paris**.
- Developed a **multi-agent** system in Python to coordinate drones for search and rescue missions in a simulated environment.

CodinGame Bot Programming 2022 – 2024

- Competed in online programming contests on **CodinGame**.
- Top 1% globally in challenge named *Ultimate Tic-Tac-Toe*.

Autotech - ROS 2022 – 2023

- **Chief of Project** on the first year of project Autotech at Intech' (Télécom SudParis).
- Full coding of an autonomous vehicle in **C++** and **Python**, using **ROS 1**.

EDUCATION

Master Data Science at Polytechnique

2025 – 2026

- Focus on **Probability, Statistics, and Optimization**; aiming for a PhD in optimization for data science.
- Relevant coursework of Maths: High Dimensional Statistics, Hidden Markov Chain and Sequential Monte Carlo Methods, Convex Analysis
- Relevant coursework of Computer Science: Deep Learning, Reinforcement Learning, Data Stream, Online Learning

Engineering diploma (Equivalent of Master) at Télécom SudParis

2022 – 2026

- Specialization MSA : Mathematics and applied Statistics

Preparatory Class (Maths & Physics, CS option) at Lycée Saint-Louis

2021 – 2022

- Equivalent to double license in Maths and Physics, with a specialization in Computer Science.

SKILLS

Core Python, Django, Odoo, ROS1, ROS2

ML/AI PyTorch, TensorFlow

Systems/Tools C++, Bash, GitHub

Web Angular, HTML, CSS

Strengths Analytical Thinking, Curiosity, Problem Solving, Project Management, Self-Learning, Detail-Oriented

LANGUAGES

French Native

English C1/C2 (TOEIC 920)