



# Jules CASSAN

*Student in Artificial Intelligence, Robotics, and Decision Support  
Seeking an opportunity in Artificial Intelligence - September 2024*

## PERSONALS INFORMATION

Age: 23 years old (07/10/2000)  
Nationality: French  
Holding a B driving license

## SKILLS

### PROGRAMMING LANGUAGES

- Python (numpy, matplotlib, panda, pytorch, sklearn, library creation)
- Java
- C # ( Unity )
- Web Frontend (HTML, CSS, Javascript)
- Bash
- SQL, SQL3, XML
- GAML ( GAMA )
- C

### KNOWN CONCEPTS

- Image processing
- Probability and statistics algorithms
- Multi-agent systems / Distributed agents (MAS)
- Machine Learning (Regression, Markov chains, reinforcement learning)
- Game Theory
- Serious Games
- Virtual Environments
- Large Language Model (LLM)
- Operations Research ( Linear programming, Graph theory )

### PROJECT MANAGEMENT

- Object-oriented programming
- Functional programming
- Proficiency in Git, Github, Gitlab
- Continuous integration (Gitlab pipeline / Github action)
- Unit testing
- Pre-commit hook

### LANGUAGE

- French: Native language
- English: Proficiency level B2

## INTERESTS

Sci-fi movies,  
Management/Cooperative games,  
Badminton

## CONTACT



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White-On (github.com)



Website

## EDUCATION

- [Master in Artificial Intelligence \(Distributed Agents, Robotics, Operations Research, Interaction, Decision\) at Sorbonne University/University Pierre and Marie Curie, Paris 6, 2021–2024](#)
- [Bachelor's degree in Computer Science at Sorbonne University/University Pierre and Marie Curie, Paris 6, 2019–2021](#)
- [Preparatory class \(PCSI\) at Jeanne d'Albret High School, Saint-Germain-en-Laye, 2018–2019](#)
- [Charles de Gaulle High School, Poissy, 2015–2018](#)

## EMPLOYMENT HISTORY

- **Internship at INRIA Lyon (Research Laboratory) in the CHROMA team** supervised by Olivier Simonin on learning to cross a crowd with autonomous vehicle in simulation with RL methods, March-September 2024, Villeurbanne, full-time.
- **Internship at LIP6 (Research Laboratory)** supervised by Pierre-Henri Wuillemin on the study and improvement of a tool for evaluating computer calculation libraries, February-September 2023, Paris-Jussieu, full-time.
- **Seasonal volunteer firefighter** at the departmental vaccination center in Jouy-le-Moutier, summer 2021, full-time.

## PERSONAL AND STUDENT PROJECTS

- **First-year Master's project: Improvement of the control of an intelligent and autonomous rolling robot.** Developmental skills: simulation, vehicle physics, autonomous agent. Team project - 1 month  
<https://github.com/jdufou1/P-ANDROIDE>
- **Case study on a multi-agent system using the Dedale tool.** Developmental skills: Multi-agent coordination in an asynchronous environment. Team project - 1 month  
<https://github.com/MRVNY/Fosyma>
- **Improvement of the driving behavior of a car in traffic.** Developmental skills: simulation, vehicle physics, neural networks. Solo project - 1 week  
<https://github.com/White-On/SelfDrivingCar-1.1>
- **Implementation of Wave Function Collapse for procedural generation.** Developmental skills: procedural generation, information theory. Solo project - 1 week  
[https://github.com/White-On/Basic\\_Wave\\_Function\\_Collapse](https://github.com/White-On/Basic_Wave_Function_Collapse)
- **Development of tools for comparing software libraries (GenBenchSite).** Developmental skills: HTML, CSS, JavaScript, D3, Bayesian network. Solo project - 2 to 3 month  
<https://github.com/White-On/GenBenchSite>