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Paris, France

Antoine Wilson

I'm an engineer specializing in deep learning, with a master's degree in embedded systems. I have practical experience of designing and integrating artificial intelligence solutions. Passionate about innovation and solving complex problems.

Work Experience

AI research engineer   **Dassault Systemes**   **Oct 2021 – Sep 2024**
Corporate research

- Various projects to improve training speed and performance of SOTA Nerf and Gaussian Splatting models
- Works on visualizing complex embedding spaces through a user-friendly interface
- Development of a transformer-based 3D interior scene generation model that outperforms the state of the art.
- Integration of this 3D generation model into one of the company's software
- Working on a multimodal 3D segmentation model on reconstructed point clouds.
- Development of a GAN model and creation of an interface to use this model

Technologies

- Main skills: Python, Pytorch, deep learning
- Secondary skills: C, CUDA, Docker, Git
- Others: ARM Assembly, Java, HTML/CSS, React

Education

- **Embedded Systems Engineering Degree,** ISEP, Paris, France.   **Sep 2019 – Sep 2024**
  I've worked on a wide range of projects, from web development to the creation from scratch of a robot capable of shooting drones.

- **Exchange Semester,** Presidency University, Bangalore, India.   **Feb 2024 – May 2024**
  project to recognize human activity using deep learning in a wearable object

- **Exchange Semester,** CTU, Prague, Czech Republic.   **Jan 2021 – June 2021**
  Java software

Interests

- **Sports:** I practice kickboxing, I played basketball for 10 years in competition and ran a marathon.
- **Economics:** I was part of my school's finance association
- **Science:** I love learning about the whole spectrum of science