



Alix Danvy

ENS Rennes CS student



24 years old



Rennes, France



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My website: adanvy.net



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Skills

Known languages

- C / C++
- Python
- Scala & Java
- Isabelle HOL
- PHP / HTML / CSS / JS / React
- MySQL / GraphQL / MangoBD
- Shell / Bash

Specific knowledge and tools

- Git & Gitlab/Github
- Oriented Object Programming & Design Patterns
- OpenMP / MPI
- NumPy / Pandas / Matplotlib
- TensorFlow / SKlearn
- LaTeX
- Markov Decision Processes
- Decision Theory Planning
- Capacity to look-up solutions and learn new topics

Hobbies

- Fencing
- Tabletop role-playing game
- University choir

Profil

Passionate about Automatic Planning and Artificial Intelligence, I am a third-year computer science student at the École Normale Supérieure (ENS) of Rennes.

I'm looking for a 4-month internship working to solve optimization problems for real world applications. Making the connection between concrete industrial issues and state-of-the-art solutions.

To add some context about the ENS Rennes diploma of computer science: the third year is an additional year between the first and final year of a Master's degree where we are encouraged to make multiples research or R&D internships.

Education

- current Third year of ENS Rennes diploma
ENS Rennes, France
- 2023-2024 Entered second year of ENS Rennes diploma
Completed first years of ENS Rennes SIF Master's degree
ENS Rennes, France
- 2023 Graduated my CS Bachelor: Promotion major
Université de Caen Normandie, France

Known languages

- English Fluent (C1, TOEIC 955 Points)
French Native

Experiences

- Sept. 2024 4 Months internship at the GREYC - CS Laboratory - Caen, France
Theoretical and experimental study of a new contingent planning algorithm. Continuation of a previous internship on the development and study of a new algorithm and data structures to work along side it. Using Scala for the experiments.
- May 2024 3 Month internship at the Bernoulli's Institute - Groningen, Netherlands
Study and development of tools to solve Partially Observable Stochastic Games with Pr. Jilles Dibangoye. Developed a new format and parser describing such problems (using C++ and ANTLR4) and learned about extensions of Markov Decision Processes.
- Apr. 2023 3 Month intership at the GREYC - CS laboratory - Caen, France
Theoretical and experimental study of a contingent planning algorithm. Under the supervision of Pr. Alexandre Niveau and Pr. Bruno Zanuttini. We managed to prove and test a new algorithm for contingent planning problems. Using Java for the experiments.
- 2023-2024 OBLiX Developer - INRIA Rennes/Nantes, France
Open source project to develop a C++ framework for code coupling.
- 2023-2024 Anticor association anti-corruption/fraud project - ENS Rennes, France
Project to fight against corruption and frauds on public markets (in France). With ENS Rennes computer science and jurist students, we worked with Julien Perez and people from Anticor building the foundation for a tool to help jurists to detect frauds. Our work ranges from data management to machine learning.
- 2022 - 2024 Tutor for CS bachelor students
Université de Caen Normandie & Université de Rennes, France
- Dec. 2023 Winner of Sinfourmis team tournament - ENS Rennes
Competition organized by the Sinfonie association. We designed a compiler to control swarm of ants and implement a strategy to win a match against another colony.