

Samy Haffoudhi

Curriculum Vitae

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Experience

- September 2024 - Now **PhD Student**, *Télécom Paris, Institut Polytechnique de Paris*, Plateau de Saclay, France.
- Research subject: Knowledge-based Language Models, combining LLMs and Knowledge Bases
 - Advisors: Prof. Fabian Suchanek and Assoc. Prof. Nils Holzenberger
 - Working on LLM- and reasoning-based Entity Linking with domain adaptation
- January 2023 - June 2024 **Student Software Engineer**, *Microsoft*, Lyngby, Denmark.
- Microsoft Dynamics 365 Business Central, part of the Developer Tools team
 - Work on the AL programming language compiler and Visual Studio Code extension
 - Complex C# and TypeScript codebase, test-driven development, bug fixes and new features development
- April - September 2022 **Research Internship**, *THALES*, Plateau de Saclay, France.
- Deep Metric Learning and Multitask learning for audio tasks
 - Voice Activity Detection, Audio signals classification and Sources separation
- July - August 2021 **Discovery internship**, *Atos*, Bezons, France.
- Discovered the missions and functioning of a Security Operations Center
 - Learned about various Networking, Informations systems and Cybersecurity concepts
 - SOC Analysts support: writing of detection rules and python automation scripts
- 2020-2022 **"Junior-Entreprise"**, *Centrale Nantes Études*, Nantes, France.
- Active member (Project manager and IT manager) of CNE, a "Junior-Entreprise" which is an association similar to a consulting firm.

Education

- 2022–2024 **Master of Science**, *DTU (Technical University of Denmark)*, Lyngby, Denmark.
- MSc in **Computer Science and Engineering**
 - Logic, AI, Deep Learning, Algorithms, Compilers, Functional Programming, Cybersecurity
 - Thesis**: *Implementation and evaluation of recent Neuroevolution algorithms*
- 2020–2023 **Engineering School**, *École Centrale de Nantes*, Nantes, France.
- A highly selective French School of Engineering conferring a diploma equivalent to a Master's Degree
 - Data analysis and processing specialization**, Statistics, Numerical Computing, Machine Learning, Deep Learning, Signal and Image processing, Algorithms, Databases
- 2018-2020 **"Classes préparatoires"**, *Lycée Janson de Sailly*, Paris, France.
- A 2-year intensive program preparing for the nation competitive exams for entry to French Schools of Engineering
 - Core courses: Mathematics, Computer Science, Physics

Computer skills

Tools **Linux, Git, Docker, Pytorch, L^AT_EX, Azure DevOps, Google Cloud Platform**
Languages **Rust, C, C++, C#, Java, Python, Ocaml, F#, Bash, Powershell, TypeScript, SQL**

Languages

Native **French**
Fluent **English**
Basics **German, Spanish and Arabic**

TOEFL 2022: 108/120