

Simon Stéphan^{PhD}

Artificial Intelligence Engineer | Data Scientist

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SUMMARY

Ph.D. candidate specializing in hybrid AI approaches, including multi-agent systems (MAS), ontologies, and graph neural networks (GNNs), applied to therapeutic target discovery in oncology. Demonstrated experience in leveraging advanced AI techniques to solve complex research problems and enhance data analysis. Skilled in full-stack development, AI research, and project management, with a strong track record of leading projects that integrate diverse AI methods for impactful results. Eager to apply expertise in hybrid AI and data-driven insights to contribute to innovative solutions in a dynamic and forward-thinking environment.

SKILLS

Languages Python, Java, C++, JavaScript, SQL

Libraries TensorFlow, PyTorch, Keras, Scikit-Learn

Tools Git, Docker, Jupyter Notebook, AWS, Google

Methodologies Agile, Kanban, UML, Merise

EXPERIENCE

2013 - 2021 | Freelance - University Lecturer

Various Clients | Everywhere, Fr

Built custom web and mobile solutions: Improved application performance and user experience by designing and implementing tailored web and mobile solutions. Ensured high standards of quality and efficiency.

Developed SocialNight: Created a platform for planning nightlife events in nightclubs. Utilized recommendation algorithms and performance analytics to enhance user engagement and optimize event success.

Created mobile apps: Developed diverse mobile applications for Android and iOS. Projects included secure chat systems and social networks, focusing on robust functionality and user-centric design.

Developed EDLStart: Built a property assessment tool using Google Firebase and Cloud Firestore. Enabled efficient data management and real-time updates, improving accuracy and efficiency in property inspections.

Designed social media platforms: Developed platforms for social media communication with performance analysis features. Enhanced engagement through data-driven insights, optimizing content strategies for better outreach.

Taught and mentored: Provided expertise in UML, Agile, and Java to students and professionals. Delivered training on modern development practices, contributing to skill development and career advancement.

2012 - 2013 | Technical Director

ADP Courtage Plus | Beaune, Fr

Led IT projects: Developed and integrated IT systems, ensuring all objectives and deadlines were met.

Managed network infrastructures: Oversaw the reliability and security of complex network systems, maintaining high operational standards.

Developed internal software: Created and maintained software solutions to optimize internal processes, enhancing overall operational efficiency.

Created recommendation system: Designed a recommendation system for insurance products, leading to an 80% reduction in response time and improved client satisfaction.

2012 - 2012 | Back-End Developer

Bazarchic | Paris, Fr

Managed databases: Ensured data integrity and optimal performance for an e-commerce platform. Focused on reliable data management and efficient query handling.

Enhanced features: Integrated new features and updated existing systems to improve user experience and overall site functionality. Prioritized seamless functionality and user satisfaction.

Collaborated with front-end team: Worked closely with front-end developers to ensure consistency and efficiency across the entire application. Addressed integration issues and optimized performance.

Migrated PHP versions: Led the upgrade from PHP4 to PHP5, with a specific focus on stock management and system optimization. Enhanced system stability and performance.

2011 - 2012 | Quality Development Engineer

RingMedia | Paris, Fr

Conducted testing: Ensured product quality and stability through comprehensive software testing and debugging. Identified and addressed issues to maintain high standards.

Optimized performance: Improved application performance by analyzing and refining code. Contributed to continuous product enhancement and user satisfaction.

Collaborated with teams: Worked closely with development teams to efficiently resolve technical issues. Facilitated communication and problem-solving to achieve project goals.

EDUCATION

2025 | Ph.D - Hybridization of Artificial Intelligence Models for Therapeutic Target Discovery

UTBM

Designed a hybrid AI model for identifying therapeutic targets in oncology, integrating biomedical knowledge, multi-agent systems, graph neural networks. Developed advanced methods for simulating biological processes, analyzing complex data, and modeling knowledge using ontologies. Made significant contributions to advancing AI research applied to healthcare.

Publication: Agent-based approaches for biological modeling in oncology: A literature review (doi: 10.1016/j.artmed.2024.102884)

2011 | Master in Computer Sciences

University of Burgundy

Specialized in project management with a focus on software development methodologies such as UML and Merise. Gained expertise in writing detailed project specifications and managing software development lifecycles. Studied foundational elements of artificial intelligence, including pattern recognition and neural networks, which paved the way for advanced research in AI applications.

2009 | Bachelor's Degree

University of Burgundy

Acquired knowledge in applied mathematics with a focus on its integration in computer science disciplines. Learned multiple programming languages, including Java, Python, and web development technologies, to build a versatile skill set. Developed a strong understanding of numerical analysis, graph theory, advanced programming, and data structures.

2008 | Associate's Degree

University Institute of Technology of Dijon

Foundational skills in algorithms, programming in Java, C, C++, and system analysis.

OTHERS INFORMATIONS

2024 - present | Regional President, Mensa

Lead regional Mensa branch, implementing strategies for intellectual collaboration and community outreach. Align local activities with national and international objectives. Organize events and workshops to engage gifted members and cater to their interests.

2018 - 2020 | Treasurer, Junior Chamber International (JCI)

Managed finances and partnerships for local JCI chapter. Oversaw budgeting, secured local business partnerships, and ensured financial compliance and transparency for community projects.

Hobbies

Cinema, Hiking, Bowling, Fitness

Languages

English B2+, C1 - Lingaskill

French Native