Simon STEPHAN

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/simon-stephan



in /simon-stephan-phd

OBJECTIFS

Hybrid profile at the crossroads of academic research and applied software development. With over 10 years of experience in web/mobile development, 5 years in project management, and 2 years in team leadership, I contribute across the full lifecycle of innovative digital solutions. My ability to collaborate with diverse stakeholders makes me a strategic asset for any organization seeking to combine scientific excellence with operational efficiency.

COMPÉTENCES

Research & Innovation

- AI (symbolic, hybrid, data-driven)
- Multi-agent systems, complex systems
- Ontological modeling, knowledge representation
- Scientific methodology, peer-reviewed publications
- Data mining and advanced analytics

Software Engineering

- Web & mobile development (full stack)
- Python, Java, SQL, C/C++, Shell scripting (planning, coordination, QA)
- LLM / NLP / Retrieval-Augmented Generation

SENIOR SOFTWARE ENGINEER & ARTIFICIAL INTELLIGENCE RESEARCHER

- Ontologies: OWL, RDF, SPARQL, Protégé
- DevOps: Docker, Git, CI/CD, SQL/NoSQL, Neo4j, ElasticSearch

Leadership & Management

- Technical project management
- Cross-functional team supervision (up to 5 engineers)
- Client requirements gathering & solution
- Technical documentation, functional specifications
- Mentoring, training, and technical communication

Soft Skills & Others

- Adaptability, autonomy, scientific rigor
- Analytical thinking, synthesis, critical
- Intercultural communication (France, Brazil, India)
- Pedagogy, mentoring, and public
- Professional working proficiency in English

TECHNICAL STACK

Machine Learning

Keras, Numpy, Pandas, PyTorch, Scikit Learn, Scipy, Tensorflow

Languages

Java, Python, C++, C, Bash

PHP, HTML, CSS, JS

Databases

Neo4j, SQL, NoSQL

Mobile

Java (Android), Swift (iOS)

Tools & Cloud

Git, Google Cloud, AWS, Conda, Cloudflare, Docker, Kubernetes

Frameworks

SpaCy, Yolo, Angular, Django, React, Laravel, Mesa, Ollama, Jira, Latex

EXPÉRIENCES PROFESSIONNELLES

Postdoctoral Researcher in Artificial Intelligence

2025 - Present • CIAD, UTBM, UBE • Dijon, France

- Designed a knowledge ontology for nuclear facility maintenance
- Developed an AI agent for optimized action-path planning
- Implemented a 3D simulation module and a reactive LLM prototype

3 papers under review | Reduced maintenance time | Real-time simulation

Ph. D in Artificial Intelligence

2022 - 2024 • CIAD, UTBM, UBE • Dijon, France

- Developed a hybrid AI model combining MAS and biomedical ontologies
- Simulated biological processes and analyzed heterogeneous datasets
- Delivered a functional prototype for therapeutic target discovery

1 peer-reviewed journal article | Interdisciplinary collaboration

Freelance Developer & Trainer

2013 - 2022 • Agoraweb • Dijon, France

- Built custom web/mobile applications for clients in various sectors
- Led technical projects in collaboration with academic institutions
- Trained students in universities, engineering schools, and vocational programs
 - +15 projects delivered | Private & public sector clients | Tech curriculum design

Chief Information Officer

2012 - 2013 • ADP Courtage Plus • Beaune, France

- Managed a 5-member IT team and supervised internal system integration
- Maintained secure and high-availability infrastructure (99.9% uptime)
- Developed internal tools improving processing time by 50%

Full software suite deployment | Digital transformation | High-impact operations

Back-end developer

2012 • Bazarchic • Paris, France

- Optimized e-commerce databases with over 20,000 SKUs
- Migrated legacy PHP4 systems to PHP5
- Integrated user-facing features and improved system performance

4M+ users | Performance gains | UX & data consistency

Quality Assurance Developer

2012 • RingMédia • Paris, France

- Conducted validation and performance testing on production apps
- Collaborated with international teams in Brazil and India
- Implemented agile QA workflows and performance tuning

Global collaboration | Agile QA adoption

FORMATIONS

Ph. D

Artificial Intelligence

2025 • Univ. Tech. Belfort Montbéliard

Research on multi-agent modeling of biological processes; development of bioinformatics tools for cancer research.

M. Sc.

Artificial Intelligence

2011 • Univ. Bourgogne Europe

Machine learning, data mining, expert systems; thesis on image enhancement algorithms.

Mathematics & Computer Science

2009 • Univ. Bourgogne Europe

Mathematical modeling, algorithms, data structures; scientific computing.

Associate degree

Computer Science

2008 • IUT Dijon

Software development (C, Java, SQL), algorithm design, software architecture

COMMUNITY INVOLVEMENT

MENSA France

2022 - 2023 • Regional President (BFC)

Led regional events and coordinated local communities nationally.

Junior Chamber International (JCI)

2017 - 2020 • Treasurer

Oversaw budgeting and financial operations for local civic projects.

French Cancer Society

2016 • Volunteer Member

Logistical support during public awareness and fundraising events.

Animal Welfare Society

2015 • Volunteer Member

On-site animal care and adoption support.