

Nicolas Six
Ph. D. Student in Computer Science

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SUMMARY

Computer Science Ph. D. candidate working on a thesis dedicated to easing the adoption of blockchain by businesses and organizations, by designing a semi-automated framework for conception and implementation of blockchain applications, through an automated decision process that takes into account company's assets and requirements, a knowledge base of blockchain technologies and patterns to support the decision process, and a code generator based on previous decision process results.

Proven abilities in software engineering, blockchain technologies, and programming languages from previous professional experiences and projects in diverse fields. Teaching in various computer science courses for B. Sc. and M. Sc. students.

PERSONAL

Date and place of birth: May 8th, 1997 - Lille, France
Nationality: French
Marital status: Single

EDUCATION

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| 2019 – 2022 (expected) | Ph. D. in Computer Science - Université Paris 1 Panthéon-Sorbonne, France.
Thesis subject: Decision process for Blockchain architectures based on requirements.
Area of specialization: Blockchain, Requirements Engineering, and Software Architecture. |
| 2014 – 2019 | Engineering Degree – Centrale Lille – IG2I, France.
Specialized in software and industrial engineering. |

PROFESSIONAL EXPERIENCE

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| February to May 2019 | Software Engineer (intern) – Microsoft, France.
Studied Microsoft Azure Blockchain-related services and implemented Blockchain-based solutions to write whitepapers based on it to the attention of customers. Used Node.js, Solidity, and Truffle Framework. |
| October to January 2018/19 | Software Developer (intern) – Outdoor Education NSW, Australia.
Developed and deployed a new website for the company, to enhance its web visibility. |
| April to October 2018 | Software Engineer (intern) – Roquette, France.
Responsible for searching for flaws in industrial production software to improve them. Implementing a production middleware between operator's software and production database. |

May to July 2017

Software Developer (intern) – Eiffage Energie, France.

Developed a new software suite for production lines to facilitate the work of production operators and stock managers.

PUBLICATIONS

Six, N., Perrichon-Chretien, A., Herbaut, N. (accepted for publication). SAIAaaS: A Blockchain-based solution for secure artificial intelligence as-a-Service. 2nd International Conference on Deep Learning, Big Data and Blockchain (DEEP-BDB).

Six, N., Ribalta, C. N., Herbaut, N., & Salinesi, C. (2020, December). A blockchain-based pattern for confidential and pseudo-anonymous contract enforcement. 3rd International Workshop on Blockchain Systems and Applications (BlockchainSys20).

Six, N., Herbaut, N., & Salinesi, C. (2021). BLADE: An automated decision support tool to guide the choice of a Blockchain technology. *Revue ouverte d'ingénierie des systèmes d'information*, 2(1). (*)

Six, N. (2020). Decision Process for Blockchain Architectures based on Requirements. In CAISE (Doctoral Consortium) (pp. 53-61).

Six, N., Herbaut, N., & Salinesi, C. (2020). Which Blockchain to choose? A decision support tool to guide the choice of a Blockchain technology. INFORSID2020. (*)

Six, N. & Beraud, P. (2019). Building and Executing Trusted Execution Environment (TEE) based applications on Azure - A starter guide for developers, Microsoft, 09-Aug-2019. [Online]. Available: aka.ms/CCDevGuideSamples.

Six, N. & Beraud, P. (2019). Gaining expertise with Azure Blockchain Service - a guide for developers, Microsoft, 01-Jul-2019. [Online]. Available: aka.ms/ABSDevGuideSamples.

Six, N. & Beraud, P. (2019). Building IoT-based solutions with Azure Blockchain Workbench - a guide for developers, Microsoft, 01-Jul-2019. [Online]. Available: aka.ms/ABWDevGuideSamples.

(*): Written in french

PROJECTS

September to February 2019

End-of-studies project – Cofidis, France.

Technical manager of the project, in a team of 6. Created an e-reputation monitoring system to track company's business clients, using web scraping and machine learning.

June to December 2019

Lead organizer of the Startup Weekend Lens Maker

This event consists of giving the possibility of building a startup in one weekend for aspiring entrepreneurs. Oversaw an organizing team of 6 people, managed budget, logistics, communication and sponsoring poles.

ACADEMIC INVOLVEMENT

July 2021

Program committee member - 1st International Workshop on Blockchain for Information Systems (in conjunction with CAISE'21).

September 2020

Student volunteer - 28th IEEE International Requirements Engineering Conference (RE'20).

July 2020

Student volunteer - 32nd International Conference on Advanced

TEACHING

2020 - 2021	Lecturer in Blockchain (Conception of decentralized apps with Solidity) Lecturer in Information Systems Engineering (UML, Model-Driven Engineering) Tutorial courses teacher in Software Development (Python basics) School tutor for M. Sc. student research projects (Literature reviews)
2019 - 2020	Lecturer in Information Systems Engineering (UML, Model-Driven Engineering) Tutorial courses teacher in Software Development (Python basics) School tutor for B. Sc. student development projects (Web development)

COMPUTER SKILLS

Languages	C, Java, PHP, Windev, Python, Solidity, HTML/CSS, Javascript.
Frameworks & tech.	Node.js, REST APIs, Bootstrap, JQuery, Web Scraping, React.js, Flask.
Databases	SQL (MySQL, PostgreSQL, and Sqlite) & NoSQL (MongoDB).
Blockchain	Basic knowledge, architectural patterns, Ethereum (and Quorum), Hyperledger Fabric, Corda.
Cloud	Microsoft Azure.

LANGUAGES

French - **mother tongue**
English - **fluent** (TOEIC: 945/990)

CLUBS AND ORGANIZATIONS

2016 – 2018	President – Mecatronix Mecatronix is a school association that aims to empower engineering students from Centrale Lille – IG2I to start projects around mechatronics (mechanics, informatics, and electronics).
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