Aless HOSRY

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StackOverflow

Education

2021–2024	**PhD, Computer Science**, *University of Lille*, France.
2017–2019	**Engineering, Architecture and Software Systems Engineering**, *Conservatoire National des Arts et Métiers (CNAM)*, Beirut, Lebanon.
2012–2016	**Bachelor of Computer Science & Technology**, *Conservatoire National des Arts et Métiers (CNAM)*, Nahr Brahim, Lebanon.

Research Experience

Berger-Levrault, Lyon, France

January 2025 - present — **Research Software Engineer**, *Specialized in software analysis*.
Authored and co-authored papers, and participated in the review of a European conference submissions
Supervised Master's students during their internships in collaboration with multiple french universities
Developed several solutions using technologies that evolved based on multiple years of research

University of Lille, Lille, France

January 2023 - May 2024 — **Assistant teacher**.
For first year students: conducting tutorial classes (TD) and practical work sessions (TP) in Python language course in French.
For third year students: conducting practical work sessions (TP) in GL (Génie Logiciel) course and supervising students in the completion of practical projects in French.
Assessing students' assignments, projects, and exams
Managing administrative aspects related to courses (grades, attendance, etc.)
Participating in the logistical coordination of tutorial and practical sessions

Institut National de Recherche en Informatique et Automatique (Inria), Lille, France

October 2021 - December 2024 — **PhD student**.
Thesis entitled "External Dependencies in Programs: Specification, Detection and Incorrectness"
Literature review to better explore my area of specialization.
Development of the prototypes and libraries MoTion and Adonis to address the problem of external dependencies detection followed by experiments on several public and private projects
Participation in seminars and conferences such as IWST and QUATIC
Attendance of training courses offered by the doctoral school to acquire complementary skills

Publications

2025 — Aless Hosry and Benoit Verhaeghe. Fasttypescript metamodel generation using fast traits and tree-sitter project. 2025.

2024 — Aless Hosry, Vincent Aranega, and Nicolas Anquetil. Motion: A new declarative object matching approach in pharo. *Journal of Computer Languages*, volume 81, page 101290. Elsevier, 2024.

2024 — Aless Hosry. *External Dependencies in Programs: Specification, Detection and Incorrectness.* PhD thesis, Lille, 2024.

2023 — Aless Hosry, Vincent Aranega, Nicolas Anquetil, and Stéphane Ducasse. Pattern matching in pharo. In *IWST 2023-International Workshop on Smalltalk Technologies*, 2023.

2023 Aless Hosry and Nicolas Anquetil. External dependencies in software development. In *International Conference on the Quality of Information and Communications Technology*, pages 215–232. Springer, 2023.

Awards

2025 **Second Prize** in the Innovation Awards category at IWST 2025 (Poland), as a Research Engineer at Berger-Levrault.

Pre-research experience

Bankers Assurance SAL, Sin El Fil, Lebanon

May 2016 - August 2021
Full Stack Developer.

Developed multiple projects, including web services, websites, Windows services, and desktop applications, using technologies such as Angular, AngularJS, .NET Core, .NET Framework, JavaScript, HTML, and CSS.

Managed databases by creating tables and stored procedures, and by manipulating and optimizing existing functions and procedures.

Collaborated with project managers to set and achieve strategic coding milestones for a pre-release software projects.

Pursued self-directed learning, adopting new technologies and languages like .NET Core, Angular, and Bootstrap.

Conducted thorough testing of mobile applications developed by external vendors to ensure quality and compliance with project specifications.

Published web services on IIS

Internal Security Forces, Ashrafieh, Lebanon

May 2015 - October 2015
Android Developer, *Internship*.

Independently acquired skills in Android app development, creating 3 different mobile applications.

First real internship where I gained experience in teamwork, learned new frameworks, and enhanced my communication and listening skills through interactions with our chief (officer in ISF).

Freelancer, Bezhel, Lebanon

2006 - 2011
Teacher.

Like many school students, I gave private lessons for students basically in maths, physics and chemistry.

Computer skills

Software analysis	Moose technology, SonarQube
Programming Languages	Pharo, TypeScript, C#, VB.Net, JAVA, Python
Web Technologies	Angular, Bootstrap, HTML 5, CSS, JQuerry, Javascript
Database	Oracle, MySQL

Languages

Arabic	Native
French	Fluent
English	Fluent

Referees

Dr. Nicolas Anquetil
Researcher at Inria Lille Nord Europe
Supervisor of my thesis
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