Laurent Christophe, MEng.

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🌐 https://lachrist.github.io
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Employment History

Oct 2023 – Present	💼	Independent Consultant focusing on Web Apps Skills: JavaScript, TypeScript, React, Node.js, SQL, HTML, CSS
Mar 2021 – Sep 2023	💼	Lead Engineer for the JavaScript client of the AppMap tool suite https://appmap.io Visualization of program execution via code instrumentation Skills: JavaScript, TypeScript, Agile Methodology, Git workflow, React
Jan 2021 – Mar 2021	💼	Lead Engineer for the prototype of EasyWanit https://www.wanit.com/easywanit A mobile application built in Ionic handling a custom Bluetooth protocol
Sep 2012 – Dec 2020	💼	Ph.D. student at Vrije Universiteit Brussel Open source contributions, written academic English, teaching duties

Education

2012 – Present	🎓	Ph.D. in Computer Science (under review; degree expected Summer 2025) Vrije Universiteit Brussel Title: Provenance-Based Dynamic Analysis in Managed Languages Supervisors: Prof. Dr. Coen De Roover and Prof. Dr. Wolfgang De Meuter

2010 – 2012	🎓	Master of Science in Engineering – Computer Science
		Université Libre de Bruxelles
		Graduated with Great Distinction
		Thesis: Iterative Typing
		  Supervisor: Prof. Dr. Wolfgang De Meuter
		  Advisor: Dr. Dries Harnie

2007 – 2010	🎓	Bachelor of Science in Engineering – Civil Engineering Université Libre de Bruxelles
2008 – 2009	🎓	Completed the first year of studies in Physical Sciences Université Libre de Bruxelles

Skills

- </> Expert in JavaScript and TypeScript
- </> Competent in SQL, Python, Java, Scala, C, C++, Haskell, Scheme, and LaTeX
- 🅰 Native French speaker, fluent in English, basic knowledge of Dutch

Miscellaneous Experience

- </> Enthusiastic programmer and open-source contributor
- </> Creator of Aran, a JavaScript code instrumenter
  `https://lachrist.github.io/aran`
- Multiple-time Belgian podium finisher in swimming
- Head coach of the NSG swimming club in Saint-Gilles since 2011

Research Publications

1 A. Stuker, A. Munsters, A. Luis Scull Pupo, L. **Christophe**, and E. Gonzalez Boix. "JAS-Maint: Portable Multi-language Taint Analysis for the Web". In: *Proceedings of the 22nd International Conference on Managed Programming Languages and Runtimes (MPLR)*. ACM. 2025

2 L. **Christophe**, C. De Roover, and W. De Meuter. "Aran: JavaScript Instrumentation for Heavyweight Dynamic Analysis". In: *Proceedings of the 23nd Belgium-Netherlands Software Evolution Workshop (BENEVOL)*, vol. 3941, pp. 97–114. CEUR Workshop Proceedings. 2024

3 M. Vandercammen, L. **Christophe**, D. Di Nucci, W. De Meuter, and C. De Roover. "Prioritising Server Side Reachability via Inter-process Concolic Testing". In: *The Art, Science, and Engineering of Programming*, 5. 2020

4 M. Vandercammen, L. **Christophe**, W. De Meuter, and C. De Roover. "Concolic Testing of Full-Stack JavaScript Applications". In: *Proceedings of the 17th Belgium-Netherlands Software Evolution Workshop (BENEVOL)*, vol. 2361, pp. 38–42. CEUR Workshop Proceedings. 2018

5 L. **Christophe**, C. De Roover, E. Gonzalez Boix, and W. De Meuter. "Orchestrating Dynamic Analyses of Distributed Processes for Full-Stack JavaScript Programs". In: *Proceedings of the 17th ACM SIGPLAN International Conference on Generative Programming (GPCE)*, pp. 107–118. ACM. 2018

6 A. Scull Pupo, L. **Christophe**, J. Nicolay, C. De Roover, and E. Gonzalez Boix. "Practical Information Flow Control for Web Applications". In: *Proceedings of the 18th International Conference on Runtime Verification (RV)*, vol. 11237, pp. 372–388. Springer. 2018

7 L. **Christophe**, W. De Meuter, E. Gonzalez Boix, and C. De Roover. "Linvail: A General-Purpose Platform for Shadow Execution of JavaScript". In: *Proceedings of the 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)*, pp. 260–270. IEEE CS. 2016

8 L. **Christophe**, C. De Roover, and W. De Meuter. "Poster: Dynamic Analysis Using JavaScript Proxies". In: *Proceedings of the 37th IEEE International Conference on Software Engineering (ICSE)*, vol. 2, pp. 813–814. IEEE. 2015

9 L. **Christophe**, R. Stevens, C. De Roover, and W. De Meuter. "Prevalence and Maintenance of Automated Functional Tests for Web Applications". In: *Proceedings of the 30th International Conference on Software Maintenance and Evolution (ICSME)*, pp. 141–150. 2014

10 N. Cardozo Alvarez, L. **Christophe**, C. De Roover, and W. De Meuter. "Run-time Validation of Behavioral Adaptations". In: *Proceedings of 6th International Workshop on Context-Oriented Programming (COP)*. ACM. 2014