

# Thibault Allançon

Software Engineer

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## Experience

### Professional

- Nov 2022 – now **Software Engineer**, *JANE STREET*, London
- Feb – Aug 2022 **Software Engineering Intern**, *JANE STREET*, London  
End-of-studies internship.
- Sep – Jan 2021 **Software Engineering Intern**, *SOFTWARE HERITAGE (INRIA)*, Paris  
Built a user-space POSIX filesystem to mount and explore the Software Heritage archive as if it was locally available. Publication of a scientific paper in an international peer-reviewed conference [1].
- Jul – Sep 2020 **Software Engineering Intern**, *JANE STREET*, London  
Summer internship program.

### Community

- Mar – Aug 2019 **Google Summer of Code**, *SOFTWARE HERITAGE (INRIA)*, Paris  
Compression of the Software Heritage graph data model (12 billion nodes, 165 billion edges) using state of the art compression techniques. Development of a REST API to query the compressed graph, and Docker environment to automate the graph compression pipeline.
- 2019 – 2022 **Teaching assistant**, *EPITA*, Paris  
Teach programming skills to EPITA students (C, UNIX, C++, Java, Caml, C#) through courses, talks and projects. Responsible of the 2020 C++ workshop, and 2021 C/UNIX workshop.
- 2017 – 2022 **Organizer in nonprofit organizations**, Paris
- PROLOGIN: the French national programming contest, redaction of algorithmic problems and exercises for qualification and semi-final rounds, creation of the custom-made game environment for the finals. President of the organization in 2020.
  - GIRLS CAN CODE!: one-week programming summer school for middle and high school girls. Our goal is to close the gender gap in computer science, by allowing girls to discover the field in a fun and safe environment.

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## Education

- 2017 – 2022 **MSc in Computer Science**, *EPITA*, Paris
- 2020 – 2021 **Research student**, *LRDE*, Paris  
Implementation of concurrent model checking algorithms in C++ for the Spot library using bitstate hashing: a memory-efficient technique to perform high coverage verifications with orders of magnitude smaller memory footprint.
- 2017 **Scientific Baccalauréat**, Paris  
With highest honors (specialization track: mathematics).

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## Skills

### Technical

Programming	C, C++, Python, Java, SQL, OCaml, Rust, Bash, $\LaTeX$	Systems	GNU/Linux, macOS, Windows
Tools	git, mercurial, make, cmake, autotools		

### Languages

French	Native speaker	English	Fluent (TOEIC: 980)
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## Publications

- [1] Thibault Allançon, Antoine Pietri, and Stefano Zacchiroli. “The Software Heritage Filesystem (SwhFS): Integrating Source Code Archival with Development”. In: *ICSE 2021: The 43rd International Conference on Software Engineering*. IEEE, 2021, pp. 45–48. DOI: 10.1109/ICSE-Companion52605.2021.00032.