

# André Nascimento

Rua da Capela, 61A  
2500-304, Caldas da Rainha  
☎ (+351) 914409368

✉ andrefftascimento@outlook.com

Curriculum Vitae

🌐 Webpage    🏠 Github    in LinkedIn

## Education

- 2024 - ongoing    **Doctoral Degree in Computer Science & Engineering.**  
Instituto Superior Técnico, University of Lisbon  
EQF level 8 | Credits: 180
- 2021 - 2023    **Master's Degree in Computer Science & Engineering.**  
Instituto Superior Técnico, University of Lisbon  
EQF level 7 | Final Grade: 18/20 | Credits: 120  
*Thesis*    A Typed Intermediate Language for Specifying the ECMAScript Standard
- 2018 - 2021    **Bachelor's Degree in Computer Science & Engineering.**  
Instituto Superior Técnico, University of Lisbon  
EQF level 6 | Final Grade: 17/20 | Credits: 180

## Research Experience

- 2025.03 - ongoing    **First Stage Researcher (R1) | Project WebCap.**  
INESC-ID, Lisbon, Portugal  
Currently working on the scraper that will collect data from the web via automated program synthesis.
- 2023.10 - 2024.10    **First Stage Researcher (R1) | Project SmartRetail.**  
INESC-ID, Lisbon, Portugal  
Formalized and implemented a symbolic fuzzer to generate security exploits for Node.js applications. Submitted the paper "Automated Exploit Generation for Node.js Packages", accepted at PLDI'25.
- 2023.02 - 2023.07    **First Stage Researcher (R1) | Project DIVINA.**  
INESC-ID, Lisbon, Portugal  
Developed a reference interpreter for the 6th version of the JavaScript standard, which served as the foundation for a new symbolic execution tool for JavaScript.

## Teaching Experience

- Spring 2023    **Teaching Assistant | ESof2: Software Engineering.**  
Instituto Superior Técnico, University of Lisbon
- Fall 2022    **Teaching Assistant | FProg-2: Foundations of Programming.**  
Instituto Superior Técnico, University of Lisbon
- Spring 2022    **Teaching Assistant | ESof2: Software Engineering.**  
Instituto Superior Técnico, University of Lisbon

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## Publications

- PLDI'25 **Automated Exploit Generation for Node.js Packages.**  
*F. Marques, M. Ferreira, A. Nascimento, M. Coimbra, N. Santos, L. Jia, J. Fragoso Santos.*  
In Proc. of the 46th ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI 2025)  
📄 Citations: 1 📈 Core Rank: A\* 📖 Length: 26 pages

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## Fellowships & Awards

- 2025.08.02 **FCT PhD Scholarship**, *Fundação para a Ciência e Tecnologia, Portugal.*  
Fully-funded PhD scholarship
- 2022.07.01 **Winner of an Award on a Software Engineering Context**, *Celfocus/Novabase.*  
Together with Duarte Bento and Susana Monteiro.

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## Academic Achievements & Recognitions

- 2021/2022 **Academic Merit Diploma**, *Instituto Superior Técnico, University of Lisbon*
- 2020/2021 **Academic Excellency Diploma**, *Instituto Superior Técnico, University of Lisbon*
- 2019/2020 **Academic Merit Diploma**, *Instituto Superior Técnico, University of Lisbon*
- 2018/2019 **Academic Merit Diploma**, *Instituto Superior Técnico, University of Lisbon*

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## Volunteering & Other Activities

- 2023.06.23 - **Sports Association Board Secretary.**  
ongoing B.W.C.R – Clube de Calistenia das Caldas da Rainha, Caldas da Rainha, Portugal  
Responsible for overseeing internal administrative operations, coordinating board meetings, and managing official documentation.
- 2020/2021 **Mentoring Programme 2020/21.**  
Núcleo de Apoio ao Estudante (NAPE), Instituto Superior Técnico, University of Lisbon

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## Other Skills

- Languages Portuguese (native speaker) • English (professional proficiency)
- Programming OCaml, JavaScript/TypeScript, C/C++, Java, Python