

# ALESSANDRO GIAGNORIO

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## WHO AM I?

I am a researcher in AI for Software Engineering, with a primary focus on enhancing (smaller) LLMs for developer/company codebases, as well as on niche programming languages. Alongside my studies, I have gained experience as a back-end developer. I am an ambitious person, curious about everything related to computer science and always eager to learn something new. I am not one to sit on my hands. In fact, my favorite saying is: "Procrastination is the thief of time".



## EDUCATION

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|----------------|---|--|
| 2023 – Ongoing | <b>PhD in Informatics</b><br>SEART Group - Software Institute<br><b>Topic:</b> Customizing Deep Learning models for Code-related Tasks<br>Università della Svizzera italiana, Lugano, Switzerland   | Università della Svizzera italiana (USI) |
| 2022 – 2023    | <b>Master of Science in Software and Data Engineering</b><br><b>Thesis:</b> Investigating the Usage of Data Augmentation for Code Review<br>Università della Svizzera italiana, Lugano, Switzerland | Università della Svizzera italiana (USI) |
| 2021 – 2023    | <b>Master of Science in Software system security</b><br>University of Molise, Pesche (IS), Italy  | University of Molise                     |
| 2018 – 2021    | <b>Bachelor of Science in Computer Science</b><br><b>Thesis:</b> Automatic Refactoring of Dockerfiles<br>University of Molise, Pesche (IS), Italy   | University of Molise                     |

## PROFESSIONAL EXPERIENCE

- |                   |  |                                      |
|-------------------|--|--------------------------------------|
| 2/2023 – 3/2023   | <b>IT Consultant</b>   | datasound srl, Italy                 |
| 3/2022 – 5/2022   | Consulting activities related to the SHADE project, a software system for sharing documents among company employees.<br>Java / SpringBoot / Docker / SQL   |                                      |
| 10/2021 – 12/2021 | <b>Back-end developer and System engineer</b><br>"Care for You" is a support application for 'Associazione Perfetta Letizia' located in Campobasso, Italy. I participated as back-end developer and system engineer.<br>Java / SpringBoot / Docker / SQL / Linux | Associazione Perfetta Letizia, Italy |

## SELECTED PUBLICATIONS

- Why Personalizing Deep Learning-Based Code Completion Tools Matters**  
*ACM Transactions on Software Engineering and Methodology (TOSEM)*  
Alessandro Giagnorio, Alberto Martin-Lopez, Gabriele Bavota
- Enhancing Code Generation for Low-Resource Languages: No Silver Bullet**  
*33rd IEEE/ACM International Conference on Program Comprehension (ICPC'25)*  
Alessandro Giagnorio, Alberto Martin-Lopez, Gabriele Bavota

## LANGUAGES

Italian - native  
English - proficient (C1)  
German - beginner

## SOFT SKILLS

Perseverance  
Problem-solving  
Teamwork