Léuson da Silva,

PhD | Researcher, Recife – Brazil
Brazilian, Single, DOB: March 2, 1993

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Highlights of Qualifications:

- 8+ years of conducting and leading research in the areas of software engineering, mining software repositories, software verification, and developer assistive tools
- 10+ years of programming experience through open-source and side projects, as well as internships
- Research publications at prestigious international software engineering conferences and journals, including ICSE (Doctoral Symposium), MSR, ICSME, and JSEP
- Reviewer in prestigious conferences and journals, including SANER'2024, TSE, JSS, and JSEP

Education

Mar 2018 – Feb 2022 **Ph.D. in Computer Science**
Federal University of Pernambuco, Recife, PE, Brazil
Visiting Period at Chalmers & University of Gothenburg (Oct 2019 – Aug 2020)
GPA 4.0/4.0

Mar 2016 – Feb 2018 **M.Sc. in Computer Science**
Federal University of Pernambuco, Recife, PE, Brazil
GPA 3.84/4.0

Mar 2011 – Dec 2015 **B.Sc. in Software Engineering**
Federal University of Ceará, Quixadá, CE, Brazil
GPA 9.27/10.0
Visiting Period at TU Munich (Mar 2014 – Feb 2015)

Experience

Academic

Mar 2023 – Present **Postdoctoral Student**, Polytechnique Montreal
Research Topics:
- Large Language Models
- AI principles
- Code Review
- Empirical Studies
- Mining Software Repositories

Mar 2022 – Mar 2023 **Assistant Professor I**, Catholic University of Pernambuco
Courses: Software Engineering, Object-Oriented Programming, Software Testing, and Programming Languages Paradigms (graduate courses)

Mar 2016 – Feb 2022 **Research Assistant**, Software Productivity Group
Federal University of Pernambuco, Recife, PE, Brazil
Research Topics:
- Code Integration Conflicts
- Continuous Integration
- Mining Software Repositories
- Empirical Studies
- Syntactic and Dynamic Analysis
- Code Merge Tools

Sep 2021 – Dec 2021 **Lecturer**, FAFIC
Course: Software Testing (Graduate course)

Feb 2020 – Aug 2020 **Visiting Researcher,**
Chalmers & University of Gothenburg, supervised by Thorsten Berger

Research Topics:

- Code Integration Conflicts
- Empirical Studies
- Mining Software Repositories
- Dynamic Analysis

Oct 2019 – Jan 2020 **Research Assistant,**
Chalmers & University of Gothenburg, supervised by Thorsten Berger
Research Topics:

- Code Integration Conflicts
- Empirical Studies
- Mining Software Repositories
- Dynamic Analysis

Industry

Mar 2015 – Dec 2015 **Software Engineer Intern**, NPI
Federal University of Ceará, Quixadá, CE, Brazil
Roles: Process Analyst and Back/Frontend Developer
Technical Skills: Java, Spring MVC, PostgreSQL

R&D Projects

Sep 2021 – Mar 2022 **SAM – Semantic Merge Tool**
Designed a technique to merge code based on serialization and unit test generation tools. The tool is under development
Technical Skills: Java, Python, Maven

Mar 2020 – Aug 2021 **SMAT - Detection of Test Conflicts**
Designed and developed a tool to detect test conflicts based on unit test generation
Technical Skills: Java, Python, R, Docker

Mar 2019 – Feb 2020 **Randoop Clean**
Proposed and developed improvements on the Randoop tool aiming to drive the generation of unit tests based on a specific target code
Technical Skills: Java, Travis CI

Mar 2018 – Feb 2019	**FixMerge - Automatic Repair Tool** Designed and developed a tool to automatically detect and fix build conflicts based on code syntactic analysis *Technical Skills:* Java, Ruby, Maven
Mar 2017 – Feb 2018	**TravisAnalysis - Detection of Build Conflicts** Designed and developed a technique to detect and report build conflicts caused by conflicting code contributions *Technical Skills:* Java, Ruby, Travis CI, R, Maven

Technical Skills

Good knowledge:	Software engineering, Agile development, Software Testing, SQL (PostgreSQL, Oracle), Java, Python, Ruby, C, Shell Script, Git, JUnit, Selenium, Mockito, Docker, Maven, Gradle, Travis CI, GitHub, GitHub Actions, Spring MVC, R, LATEX, Linux, Windows
Basic knowledge	JavaScript, C++, Flutter, Machine Learning