

Luca Scistri

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PROFILE

Double degree student at IMT Atlantique and Concordia University, specialized in software engineering. I am currently working within the Ptidej laboratory, where I develop static analysis tools in Java and contribute to software engineering research projects. I am seeking a final internship starting September/October 2026 to apply my skills in software development, design, and complex problem-solving to an engineering team.

EDUCATION

Concordia University

Montréal, QC

MASc in Software Engineering, Ptidej Lab Member, GPA: 4.15/4.3

Jan. 2024 – Present

- Algorithms and data structures, Agile methodology, Design patterns, Distributed systems
- Development of GLASS (Galois Lattice Analysis for Software System) and advancement of state-of-the-art
- Communication of research through a series of articles on blog.ptidej.net.
- Peer review of scientific articles for IEEE TSE and various software engineering conferences
- Recipient of the Concordia Merit Scholarship

IMT Atlantique

Brest, France

Engineering Diploma, GPA 3.8/4

Sept. 2021 – Present

- Discrete mathematics, Signal processing, Databases, Human-computer interaction, Object-oriented programming
- Development of a connected chessboard using Python, Raspberry Pi, and Arduino to automate piece movement
- Development under Unreal Engine of an interactive reproduction of the Petit Minou lighthouse integrating real-time weather data

Lycée Malherbe

Caen, France

Classes Préparatoires aux Grandes Écoles, MP*

Sept. 2018 – June 2021

EXPERIENCE

Research Assistant

July 2023 – Aug. 2023

IMT Atlantique

Brest, France

- Development of a Python application controlling two Raspberry Pi units to operate a Fischertechnik industrial model for research on digital twins
- Contribution to existing codebase: implementation of features, multithreading usage, documentation improvement, and software quality enhancement

Research and Development Intern

Feb. 2022

Conscience Robotics

Hérouville-Saint-Clair, France

- C++ development of a recovery routine for an autonomous cleaning robot
- Work within an RD team using GitLab, Jira, and agile methodology
- Participation in code reviews, development integration, and technical problem-solving

PERSONAL PROJECTS

GLASS | Java, Git, Maven

Sept.2024 – Present

- Design and development of a static analysis tool in Java to automatically detect refactoring opportunities in object-oriented projects
- Improvement of the detection algorithm to reduce false positives and handle several edge cases identified in literature
- Design of a modular architecture allowing the use of multiple code analysis libraries
- Collaboration with researchers from Concordia, McGill, and UQAM in tool evolution

Open-Source Contributions | Java, Git, Maven

Sept.2024 – Present

- Contributions to the Ptidej static analysis tool: bug fixes, analysis library improvements, and addition of new features
- Identification and documentation of an OpenJDK compiler bug concerning default method resolution, leading to in-depth analysis of Java compiler behavior

Self-Directed Learning | React, Scheme

- Study of the open-source FullStackOpen course
- Study of the SICP book published by MIT

SKILLS

Programming Languages: Java, Python, C++, Scheme(Lisp), SQL (PostgreSQL)

Frameworks/Libraries: Spring, React

Tools: Git, Maven, Jira, Linux (Fedora)

Languages: French (native), English (C1, IELTS 8.0/9), Chinese (beginner)