Gabriele Pappalardo

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Summary

Current Master Computer Science student at University of Pisa, following the “Software: Programming, Principles and Technologies” curriculum. Lover of programming languages and video games.
Interested to: help people through games and solving problems.

Education

University of Pisa Pisa | 2021 - now
M.S. in Computer Science
Curriculum: “Software: Programming, Principles and Technologies”.
Principals courses: “Advanced Programming”, “Languages, Compilers and Interpreters”.

University of Pisa Pisa | 2018 - 2021
B.S. in Computer Science
Grade: 110/110. Thesis: “*Improving the support for 3D scanned data in MeshLab and PyMeshLab*”

I.S. “S. Calvino” - “G.B. Amico” Trapani | 2013 - 2018
Grade: 100/100
DS1 graduate degree in Economics and Business Management, Management Information Systems, general.

Skills

Programming	C/C++, Java, Kotlin, JavaScript, Python, Lua, OCaml
Language	Italian, English (IELTS - B2)

Work Experience

University of Pisa

Student Tutor — Pisa | 2021 - now

Student tutor for “Laboratory 1-C” course at University of Pisa, helping students with JavaScript assignments and projects.

ntop — Pisa | 2019 - 2021

User Experience Developer

Started in parallel with University. Developed graphical user interfaces for ntopng software (https://www.ntop.org/products/traffic-analysis/ntop/) using:
- Web technologies (HTML5, CSS3, JavaScript (ES6), BootStrap 4/5, jQuery).
- Lua scripting language.

Volunteer

Google Developer Group Pisa — Pisa | 2019 - now

Manager of GDG Pisa

Presentation and Papers

Just in Time to understand

Introduction to JIT compilers.

This presentation illustrates a brief history about JIT compilers and how they are implemented (conceptually speaking). This JIT compiler implementation uses the C++ programming language. The presentation was made for "Advanced Programming" colleagues

C.S. Bachelor Thesis

Title: *“Improving the support for 3D scanned data in MeshLab and PyMeshLab”*

MeshLab, and its Python counterpart PyMeshLab, have been widely used for processing 3D scanned data. However, some functionalities of MeshLab that are entirely interactive have not been transferred into the scriptable framework under Python. Moreover, an emerging file format for distributing scanned data still is not supported by MeshLab. In this thesis, we have improved the support for 3D scanned data in MeshLab by adding the support for 3D scanned LIDAR data (E57) and by refactoring the core part of the alignment tools to allow higher flexibility in their usage in PyMeshLab.” Through the work of this thesis, two new MeshLab (http://meshlab.net) plugins were created using C++ language. The first new component is an I/O Plugin used to read and save E57 files (https://libe57.org). Instead, the second one is a new Filter Plugin to allow PyMeshLab's user to use "Alignment" tools in Python scripts.