

Gabriele PAPPALARDO

Master Computer Science Student

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SKILLS

Programming C, **Modern C++**, **Java**, Kotlin, **OCaml**, Lua, Python, TypeScript, JavaScript
Frameworks & Libraries LLVM, Unity Engine, Löve2D, Android, Flask, Bootstrap
Development tools CMake, Opam, Docker, git

EDUCATION

- 2022 - Present **Erasmus : Master in Computer Science at Technical University of Munich (TUM)**. Following courses related to programming languages, with a practical one oriented to **Static Analysis** for C programs (GoblinT).
- 2021 - Present **Master in Computer Science at University of Pisa**. Curriculum : "Software : programming, principles and techniques". Where the main courses regard programming languages and formal methods.
- 2018 - 2021 **Bachelor in Computer Science at University of Pisa**. Thesis : "Improving the support for 3D scanned data in MeshLab and PyMeshLab". The thesis project allowed the implementation of new plugins for **MeshLab** and **PyMeshLab** softwares, using the C++ programming language and Python." Grade : 110/110.

EXPERIENCES

- October 2021 - May 2022 **Student Tutor, UNIVERSITY OF PISA, Pisa**
 - > Helped more than 30 undergraduate Computer Science students.
 - > Teaching "Laboratory 1" course, where students learn how to program using **JavaScript**.

JavaScript TypeScript NodeJS npm

December 2019 - June 2021 **UI/UX Developer, nTOP, Pisa**
 - > Developed graphical user interfaces for ntopng software using web technologies.
 - > Re-worked main ntopng user interface.

HTML5 CSS3 JavaScript jQuery Bootstrap Lua

VOLUNTEER

- Present - September 2022 **Mentee, LEAD THE FUTURE, Remote**

Among the few Italian students selected as mentee for LeadTheFuture, a leading mentorship non-profit organization for students in STEM, with an acceptance rate below 20%. LeadTheFuture empowers top-performing students to achieve their goals and contribute to their communities by giving them one-on-one guidance from high-impact mentors coming from the world's leading STEM innovation hubs such as Silicon Valley and CERN.

Present - September 2019 **Manager, GDG PISA, Pisa, Remote**

Organised more than 10 **talks**, with the help of other managers, in Pisa, inviting people from abroad.

Google Developer Group

PROJECTS

MUCOMP-LANG

2022

github.com/gabryon99/mucomp-lang [Report : \$\mu\$ comp-lang implementation](#)

μ comp-lang is an imperative, interfaces and components based, statically type checked **programming language** created as final project for the "Languages, Compilers and Interpreters" course at University of Pisa. The language is written using **OCaml** for the frontend (lexing with **Ocamllex**, parsing with **Menhir**) and using the **LLVM** toolchain as backend.

OCaml LLVM Menhir Ocamllex Clang LLDB

LANGUAGES

- > English : achieved an **IELTS** of level **B2** in 27/12/2018. Score obtained :
 - > Listening (6.0)
 - > Reading (6.0)
 - > Writing (5.0)
 - > Speaking (6.5)
 - > Overall Band Score (6.0)
- > Italian : native language