

Juan Scerri

CURRICULUM VITAE

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Relevant Experience

- Q4 2021 || **HackTheBox University CTF**
Team: MelitaBusters, Ranking: 59/594
I participated as a member of the University of Malta's CTF team, with a focus on cryptography.
- Q3 2021 || **MITA Student Placement Programme**
Deployment at the IT Management Unit of the Ministry for National Heritage, Arts and Local Government
I was tasked with checking local councils' internal networks and ensuring that devices were using the latest version of Windows.

Completed Projects

- Q1 2022 || **DataTable/CPS1011 Assignment**
Assignment for Programming Principles (in C)
I developed a very rudimentary CLI spreadsheet program. During development I followed good C programming practices.

Pending Projects

- Q3 2021 – NOW || **Front-end Web Development**
Voluntary work for the Malta Mathematical Society (MMS)
I am developing a simple website for the MMS.
- 2020 – NOW || **Java and Python Development**
Development of a Propositional Logic Calculator
Firstly, I wrote the calculator in Python and then, I rewrote it in Java. My latest efforts include generating random valid implications/equivalences.

Education

- Q4 2021 – NOW || **B.Sc. (Hons) in Mathematics and Computer Science**
University of Malta
I am in my first year of the above-mentioned course.
- 2019 – 2021 || **MATSEC Matriculation Certificate**
St. Aloysius' College, Sixth Form
Advanced: Pure Mathematics (A), Computing (A). Intermediate: Physics (A), Philosophy (A), English (B), Systems of Knowledge (A).
- 2014 – 2019 || **MATSEC Secondary Education Certificate (SEC)**
St. Benedict's College, Kirkop Secondary School
12 MATSEC O-Levels.

Skills

Programming Languages

C, Java, Python

Workflow

Tiling Window Managers, Neovim, Terminals

Other Languages

Bash, JavaScript, Rust, C++

Markup Languages

HTML and CSS, Markdown, \LaTeX

Operating Systems

Linux, macOS

Areas of Interest

Low-level/Systems Programming — I am interested in this type of programming because of the nuance and subtleties of the platform which the programmer has to keep in mind. This helps build a greater understanding of hardware and operating systems.

Reverse Engineering — I find this area to be similar to low-level programming. It forces you to learn about a large number of things, such as: how compilers produces binaries, assembly, etc.

Compilers and Languages — This is an intriguing area because I am fascinated with code optimization and the creation of programming languages. Currently, I am following the development of Zig. A programming language meant to be a better C.

Links

Malta Mathematical Society Website Repository

- <https://github.com/maltamathsoc/maltamathsoc.github.io>

Python Logic Calculator Repository

- <https://github.com/giorgio/LogicCalculator>

Java Logic Calculator Repository

- <https://github.com/JuanScerriE/LogicCalculator>

DataTable/CPS1011 Assignment Repository

- <https://gitlab.com/JuanScerriE/cps1011-assignment>
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