

Juan Scerri

CURRICULUM VITAE

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Relevant Experience

Q4 2021	HackTheBox University CTF <i>Team: MelitaBusters, Ranking: 59/594</i> I participated as a member of the University of Malta's CTF team, with a focus on cryptography.
Q3 2021	MITA Student Placement Programme <i>Deployment at the IT Management Unit of the Ministry for National Heritage, Arts and Local Government</i> 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 <i>Assignment for Programming Principles (in C)</i> I developed a very rudimentary CLI spreadsheet program. During development I followed good C programming practices.
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Pending Projects

Q3 2021 – NOW	Front-end Web Development <i>Voluntary work for the Malta Mathematical Society (MMS)</i> I am developing a simple website for the MMS.
2020 – NOW	Java and Python Development <i>Development of a Propositional Logic Calculator</i> 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 <i>University of Malta</i> I am in my first year of the above-mentioned course.
2019 – 2021	MATSEC Matriculation Certificate <i>St. Aloysius' College, Sixth Form</i> Advanced: Pure Mathematics (A), Computing (A). Intermediate: Physics (A), Philosophy (A), English (B), Systems of Knowledge (A).
2014 – 2019	MATSEC Secondary Education Certificate (SEC) <i>St. Benedict's College, Kirkop Secondary School</i> 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, L^AT_EX

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 produce 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/girogio/LogicCalculator>

Java Logic Calculator Repository

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

DataTable/CPS1011 Assignment Repository

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