Gustavo Passarella

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SUMMARY

Based in Enfield, North London, I am a Computing and Cyber Security graduate from London Metropolitan University, I have used my **Python** skills to develop a vulnerability-testing toolkit for my final year project, designed with user-friendly reports and recommendations.

I am currently working as **Python, SQL database**, and **Game Development** at FunTech where I teach children and young adults computer science and software engineering concepts.

Furthermore, my knowledge of C# and C++ solidifies my foundation in software development.

SKILLS

- Python | Java | HTML & CCS | JavaScript | React | Git | GitHub | MySQL | PostgreSQL
- Django | NodeJS | ExpressJS | Pandas | NumPy | Pygame | Game Development | Object-Oriented Programming
- Kali Linux | Penetration testing | Vulnerability assessment | Cryptography | Network Architecture | Cloud Computing

PROJECTS

LinEsc - Linux Privilege Escalation Toolkit   **2023**
Final Year Project   GitHub Link

- Engineered a highly efficient **Python** toolkit capable of identifying potential **privilege escalation** routes in Linux systems, demonstrating my **strong scripting** and **system security knowledge**.
- The toolkit presents users with **real-time** commands for potential **privilege escalation**, demonstrating the tool's practical application and increasing its **overall efficiency**.
- Generated **detailed reports** on findings, providing potential exploitation strategies for immediate client security **threat mitigation**, reinforcing my ability to communicate complex data effectively.

AuroraByte - Encryption Algorithm   **2023**
Group Project   GitHub Link

- As the lead developer, I drove the development and implementation of the AuroraByteCipher **encryption algorithm**, combining **Python**, **AES**, and a **custom substitution cipher** to create a powerful encryption solution.
- Created an intuitive **user interface** using Tkinter, allowing seamless file **encryption** and **decryption** and demonstrating my ability to design user-friendly software.
- Integrated a **symmetric key** concept within the algorithm using hashlib and crypto libraries, and employed **multi-threading** to boost performance and user experience, showcasing my adeptness at applying advanced programming techniques.

Game Development   **2021 - Present**
Personal Projects   GitHub Link

- Leveraged **Python** and **Pygame** to develop a range of engaging games including Snake, Sliding Puzzle, Wordle, Mastermind, Minesweeper and others, demonstrating my ability to create diverse and interactive experiences.
- Challenged personal **coding skills** through these projects, acting as both **personal learning** tools and platforms for skill enhancement.
- Established and maintained a **YouTube channel**, Tech&Gaming, providing **Python** game development **tutorials** to encourage and support learning within the wider community.

Wordpress Website 2019
WebDesign Website Link

- Custom-built a professional website for a Brazilian label company, leveraging **Bootstrap** and **WordPress** frameworks to ensure seamless user experience.

- Developed a unique WordPress theme that perfectly captured and enhanced the company's brand and aesthetic.

- Pioneered a tailored WordPress plugin, introducing backend client submission functionality that revolutionized the company's data entry process.

EDUCATION

BSc(Hons) Computer Networking & Cyber Security - 1st Class honors degree Sept 2020 - May 2023
London Metropolitan University

Cisco Certifications - Merit Certified Sept 2020 - May 2023
CCNA 1-3 and Network Security

Back End Development and APIs - Online Certification 2023
FreeCode Camp

Scientific Computing with Python - Online Certification 2022
FreeCode Camp

Responsive Web Design - Online Certification 2019
FreeCode Camp

WORK EXPERIENCE

Tech Tutor **July 2021 - Present**
FunTech *London, UK*

- Tutoring for **Python programming** to children aged 10-15, contributing to 100% of the students scoring top grades (9/8/7 at GCSE and A* or A on A Level students) showcasing the effectiveness of the teaching approach.

- Enhanced student engagement by leading **game development** projects and establishing a participative learning environment, leading to a richer learning experiences and amplifying their creative capacities.

- Boosted understanding of complex concepts through **effective communication** strategies, showcasing my ability to simplify challenging information,

- Empowered students with essential tech skills by providing **web development** and **SQL database** lessons, thereby aligning with FunTech's mission to build efficiency in tech and preparing them for the modern tech landscape.

Assistant Manager **Aug 2017 - Oct 2020**
Costa Coffee *London, UK*

- Boosted **customer satisfaction** significantly by **leading a team** dedicated to providing exceptional service consistently.

- Enhanced branch profitability by overseeing **strategic scheduling**, daily operations, **stock control**, and **financial management**, ensuring smooth and efficient functioning.

- Consistently exceeded branch **targets** and **improved productivity** and employee morale by maintaining an efficient workplace and effective leadership.

LANGUAGES

English **Portuguese** **Spanish**
Proficient Native Intermediate