

FIDEL EHIRIM

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SUMMARY

Motivated and technically skilled Computer Science undergraduate with hands-on experience in software development, cybersecurity, and instruction. Skilled in building Python-based applications and conducting ethical hacking simulations with Kali Linux. Strong communicator and team player with a passion for problem-solving and creating user-focused solutions.

EDUCATION

BSc (Hons) Computer Science
University of Manchester
Y Pant Comprehensive School
A-Levels:

Expected Graduation: 2028
Manchester, UK
Completed: 07/2024

- Computer Science (A*)
- Mathematics (A*)
- Further Mathematics (A)
- Welsh Baccalaureate (A*)
- Physics (B)

CORE COMPETENCIES

- **Foundational Software Development and Programming:** Proficient in Python (Intermediate), with knowledge of C, HTML, and CSS. Built GUI-based, database applications using Tkinter, SQLite3, and Pandas, emphasizing debugging and clean code.
- **Cybersecurity and System Administration:** Applied Kali Linux tools in ethical hacking simulations for reconnaissance, system-level tasks, and data decoding. Gained hands-on experience in identifying vulnerabilities and performing secure user administration.
- **Technical Communication and Instructional Leadership:** Taught Scratch and Python to young learners, simplifying concepts through custom lesson plans. Fostered engagement, teamwork, and resilience through interactive, student-led teaching.
- **Analytical Thinking and Problem Solving:** Skilled in Microsoft 365 Suite and Python libraries for data analysis and automation. Apply logical reasoning, debugging techniques, and time management to resolve technical challenges efficiently
- **Creative and Collaborative Project Execution:** Contributed to classroom and volunteer initiatives using tools like Photoshop and educational platforms. Demonstrated leadership, adaptability, and collaboration while executing projects with real-world impact.

EXPERIENCE

Intern **06/2024 - 01/2025**
Edureka

- Executed system-level tasks and user management protocols within Kali Linux, reinforcing secure administrative practices and contributing to the simulation of real-world cybersecurity operations.
- Investigated target web infrastructures through manual reconnaissance techniques, uncovering exploitable vulnerabilities and critical security flags used in penetration testing simulations.
- Interpreted and deconstructed Base64-encoded payloads using advanced Kali Linux utilities, exposing concealed data and enhancing threat detection in simulated cybersecurity scenarios.

Volunteer Coding Instructor **09/2022 - 06/2024**
Y Pant Comprehensive School

- Mentored 10–15 students aged 11–13 in foundational programming using Scratch and Python, fostering early interest and confidence in computer science through personalized guidance.
- Designed interactive lesson plans and hands-on coding activities to reinforce core programming concepts and accommodate diverse learning styles for maximum comprehension.
- Stimulated student engagement through gamified challenges and collaborative projects, cultivating curiosity, creativity, and teamwork in a dynamic classroom environment.

PROJECTS

Sustainability Tracker – A Level Computer Science **09/2023 - 06/2024**
Python | Tkinter | Pandas | SQLite3 | Regular Expressions

- Engineered a responsive GUI with Tkinter to streamline data input and visualization, significantly enhancing user experience for eco-conscious activity tracking applications.
- Integrated SQLite3 to construct a lightweight local database, ensuring secure, efficient storage and real-time retrieval of user-generated environmental data.
- Leveraged Pandas and regular expressions to clean, analyze, and report user activity trends, delivering actionable, data-driven insights on individual environmental impact.