

Saul Needham

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PERSONAL PROFILE

I am a dedicated and driven Computer Science student at Manchester Metropolitan University, based in Stockport, with a strong foundation in software development and web technologies. Over the course of my studies, I have developed a passion for coding and problem-solving, working on a variety of projects that demonstrate my proficiency in Python, web development, and cybersecurity. Notably, I have built a personal portfolio website to showcase my work and an online encryption program to explore secure data transmission.

EDUCATION

Manchester Metropolitan University

September 2023-Present

- **Computer Science:** BSc
- **Relevant coursework:** Programming, Group projects, Web development, Databases, Computer Architecture, Networks, Industry Engagement, Algorithms and Data structures, Maths in computing, Ethical Hacking, Software Dev Processes, Operating systems

Altrincham Grammar School for Boys

September 2016-July 2023

- **A-Levels:** Computer Science (B), Mathematics (B), Physics (C)

PROFFESIONAL EXPERIENCE

The Tutor trust, Manchester Area

November 2023-June 2025

Secondary school Maths tutor

- Tutored children who needed additional academic support as part of Tutor trusts charitable mission
- Worked mobile, at many schools across Manchester and tutored a wide range of concepts on the mathematic curriculum

IBM, Manchester

July 2022

Software Engineer work experience

- Worked in an agile environment, collaborating closely with team members in iterative cycles
- Developed and strengthened key skills such as coding, problem-solving, and pair programming, while working on various tasks and challenges in team settings.
- Focused on Python and XML during my hands-on experience, utilising these technologies to build applications and systems

Mathnasium, Stockport

December 2021-April 2023

Maths instructor

- Tutored primary and secondary school maths to students aged 5-16
- Worked with students from diverse cultural and socioeconomic backgrounds, developing an understanding of different learning challenges and fostering an inclusive, supportive learning environment
- Developed strong communication skills, explaining complex concepts in a clear, accessible manner

SKILLS

- **Languages:** Python, Java, C#, C++, HTML, CSS, JavaScript, SQL
 - Experienced in applying various programming languages to solve complex problems, develop scalable applications, and work on diverse projects ranging from web development to system-level programming
- **Technologies:** PyCharm, VS Code, Git, AI integrated programming, IntelliJ, Visual Studio, MS office specialist certified, GDPR learning certified
 - Adept at utilising modern development environments and version control systems to streamline workflows, enhance collaboration, and improve code quality, with additional expertise in productivity tools and automation