# Saul Needham

Manchester, UK | 07401853757 | saulneedhxm@gmail.com | https://uk.linkedin.com/in/saul-needham-48a269208

## EDUCATION

**Altrincham Grammar School for Boys**                                    **September 2016-July 2023**

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

**Manchester Metropolitan University**                                    **September 2023-Present**

- **Computer Science:** BSc
- **Relevant coursework:** Programming, Group programming, Web development, Databases, Computer Architecture

## PROFFESIONAL EXPERIENCE

**Tutor trust, Manchester Area**                                    **November 2023-Present**
Secondary school Maths tutor

- Tutored children who needed additional academic support
- Worked mobile, at many schools across Manchester

**IBM, Manchester**                                    **July 2022**
Software Engineering work experience

- Worked in an agile environment
- Built on skills such as coding, problem solving and pair programming
- Mainly worked with Python and XML during experience

**Mathnasium, Stockport**                                    **December 2021-April 2023**
Maths instructor

- Tutored primary and secondary school maths to students aged 5-16
- Worked with many different students from all backgrounds
- Built strong communication and teaching skills

## SKILLS

- **Languages:** Python, Java, C#, C++, HTML, CSS, JavaScript,
- **Technologies:** PyCharm, VS Code, Git, SQL, AI integrated programming, IntelliJ,

## PROJECTS

**Online encryption program (Python)**

- Client-server functionality using sockets
- Login system (with account creation and secure hashed logins)
- Automatic key pair generation for each account
- Ability to encrypt and decrypt messages asymmetrically with other users public keys
- Global chat feature in which users could securely communicate
- Ability to decrypt messages with private keys