

Eschal Najmi

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EDUCATION

BSc Computer Science (Industrial) currently working at a 1:1 <i>University of Leeds</i>	Sept. 2022 – July 2026 <i>Leeds, UK</i>
A Levels in Computer Science (A*), Economics (A*), Maths (A) <i>Sandringham School</i>	Sept. 2020 – July 2022 <i>St Albans, UK</i>

EXPERIENCE

Software Engineering Intern <i>Perip</i> <ul style="list-style-type: none">• TBA••	July 2025 – Sept 2025 <i>Reading, UK</i>
Laboratory Research Assistant (BioComputation) <i>The Francis Crick Institute</i> <ul style="list-style-type: none">• Contributing to the Electron Microscopy team to develop software solutions within the biology sector.• Developing AI solutions to automate the segmentation and classification of large-scale bioimaging data.• Took part in internal hackathons to build solutions to other biocomputational problems.	July 2024 – July 2025 <i>London, UK</i>
Treasurer <i>University of Leeds CompSoc</i> <ul style="list-style-type: none">• Core organiser and head of finances/sponsorship for the first ever LeedsHack.• Organised and executed diverse fundraising events, such as a Charity Casino Night.• Established a charity partnership between the society and ComputerAid. Raised £1,873.33 for Computer Aid.	Nov. 2023 – Present <i>Leeds, UK</i>
Computer Science Tutor <i>FunTech</i> <ul style="list-style-type: none">• Provided consistent programming & computer literacy tutoring to students ranging from 7 to 18 years old.• Delivered personalised instruction to students in Python, C++, and Java programming languages.• Decomposed complex ideas by focusing on essential information, making sure students could grasp the concepts.	Sept. 2023 – July 2024 <i>Remote, UK</i>
Engineering Intern <i>Sprout AI</i> <ul style="list-style-type: none">• Programmed a Python script to organise large data sets into cohesive groups and then seamlessly transferred these groups into a more user-friendly format.• Worked closely with the engineering team to address and fulfill ad hoc requests effectively.	Aug. 2022 – Sept. 2022 <i>London, UK</i>

PROJECTS

<u>JACK Compiler</u> <i>C, Git</i> <ul style="list-style-type: none">• Implemented a lexical analyser, parser, symbol table and vm file generator.• Explored different methods of parsing to determine recursive descent parsing as the most efficient.	Feb. 2024 – May 2024
<u>Xv6 Shell</u> <i>C, Risc V, Xv6</i> <ul style="list-style-type: none">• Developed a shell within the Xv6 operating system to handle basic commands, multiple pipes and I/O redirection.• Attained a better knowledge of memory management especially malloc.	Nov. 2023 – Dec. 2023
<u>Compression Decompression Software</u> <i>C, Git</i> <ul style="list-style-type: none">• Devised bit twiddling algorithms to compress, decompress and convert a range of image resolutions in C.• Utilised GDB to effectively debug and test the software.	Feb. 2023 – May 2023
<u>Feistel Encryption</u> <i>Hack ASM</i> <ul style="list-style-type: none">• Improved my knowledge of assembly programming and memory management.	Feb. 2023 – May 2023

TECHNICAL SKILLS

Languages: Java, Python, C/C++/C#, SQL, Hack ASM, Hardware Description Language, CUDA, R, Groovy
Developer Tools: Git, VS Code, MySQL Workbench, QT Creator, Jupyter Notebook, HPC, Napari, Fiji