Eschal Najmi

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Education

BSc Computer Science (Industrial) Sept. 2022 – July 2026
1:1 *University of Leeds*

A Levels in Computer Science, Economics, Maths Sept. 2020 – July 2022
*A*A*A* *Sandringham School*

Experience

Software Engineering Intern July 2025 – Sept 2025
Pexip *Reading, UK*

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Laboratory Research Assistant (BioComputation) July 2024 – July 2025
The Francis Crick Institute *London, UK*

- Developed AI solutions to automate the segmentation and classification of large-scale bioimaging data.
- Took part in an internal hackathon to build a web app for visualisation of mass spec proteomics data.
- Helped out with workshops on an Introduction to Image Analysis for non computational professionals.

Treasurer Nov. 2023 – Present
Leeds University Union Computing Society *Leeds, UK*

- Core organiser and head of finances/sponsorship for the first ever LeedsHack.
- Organised diverse events, such as a Charity Casino Night & a workshop on biocomputational pipelines.
- Established a charity partnership between the society and ComputerAid. Raised £1,873.33 for Computer Aid.

Computer Science Tutor Sept. 2023 – July 2024
FunTech *Remote, UK*

- 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.

Engineering Intern Aug. 2022 – Sept. 2022
Sprout AI *London, UK*

- Programmed a Python script to organise large data sets into groups and then transferred these groups into a more user-friendly format.
- Worked closely with the engineering team to address and fulfill ad hoc requests effectively.

Projects

JACK Compiler | *C, Git*

- 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.

Xv6 Shell | *C, Risc V, Xv6*

- Developed a shell within the Xv6 operating system to handle basic commands, multiple pipes and I/O redirection.
- Implemented a range of dynamic memory management techniques such as malloc

Compression Decompression Software | *C, Git*

- 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.

Feistel Encryption | *Hack ASM*

- Improved my knowledge of assembly programming and memory management.

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