

Oliver Peers

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PROFESSIONAL SUMMARY

MSc Computer Science student with strong software development and analytical skills, leveraging an engineering background. Proficient in Python, JavaScript, and SQL, with experience in machine learning, data analysis, and scalable system design through both academic and independent projects.

EDUCATION

University of Liverpool

Sep 2025 - Expected 2027

MSc Computer Science with Year in Industry

- Developing practical expertise in Python, SQL, and Spark through applied projects in system design, optimisation, scalability, and data analysis.
- Current modules: Efficient Algorithms, Database & Information Systems, Big Data Analytics.

BEng (Hons) Civil Engineering, First Class (77%)

Sep 2022 - Jul 2025

- Built a strong foundation in computational modelling, numerical analysis, and data-driven problem solving.
- Applied machine learning utilising Python to engineering datasets, and performed analysis using MATLAB.

SOFTWARE PROJECTS

Neural Networks for Anaerobic Digestion (Undergraduate Dissertation - Python, TensorFlow)

- Designed ANN models in Python/TensorFlow to predict ADM1 parameters, achieving 97.9% accuracy.
- Deployed training pipelines on Barkla HPC, improving model scalability and efficiency.
- Enhanced model scalability and generalisation by optimising code structure and training pipelines.

Portfolio Website (HTML, CSS, JavaScript) - olliewp634.github.io/portfolio/

- Designed and developed a personal project portfolio website, showcasing 5 key software and research projects.
- Implemented core front-end logic with JavaScript, ensuring accessibility and mobile compatibility.
- Learning React and planning migration of portfolio to a component-based front-end.

Structural Engineering Analysis Tools (VBA)

- Automated 3 common soil and truss calculations in VBA, streamlining geotechnical and structural workflows.
- Applied advanced formulae and logic to improve accuracy and reduce manual computation.

Income Data Analysis Tool (MATLAB)

- Built data pipelines to analyse income trends for graduate and postgraduate populations over a 10-year window.
- Employed advanced statistical functions to highlight 3+ key economic disparities with data-driven insights.

WORK EXPERIENCE

Hospitality Waiter, Liverpool Football Club

Oct 2024 - Apr 2025

- Delivered premium hospitality service to high-profile guests in suites with a 400+ person capacity at Anfield. Strengthened teamwork, communication, and problem-solving skills in a fast-paced environment.

TECHNICAL SKILLS

Programming: Python, JavaScript, C, MATLAB, SQL, R, HTML, CSS

Frameworks & Tools: TensorFlow, Spark, Git

Areas of Focus: Software Development, Algorithm Design, Database Systems, HPC Workflows