

# Oliver Peers

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## PROFESSIONAL SUMMARY

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MSc Computer Science student with strong software development, problem-solving, and analytical skills, leveraging a solid engineering background. Proficient in Python, JavaScript, and SQL, with experience in machine learning, data pipelines, and building scalable, maintainable, and efficient software systems.

## EDUCATION

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### 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, and data analysis.
- Current modules: Efficient Algorithms, Database & Information Systems, Big Data Analytics.

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

Sep 2022 - Jul 2025

- Strong foundation in computational modelling, numerical analysis, and data-driven problem solving.
- Applied machine learning with Python and performed data analysis using MATLAB.

## SOFTWARE PROJECTS

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### 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/](https://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.
- Familiarity with React; planning component-based migration.

### 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

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### 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

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Programming: Python, JavaScript, C (CS50 experience), MATLAB, SQL, R, HTML, CSS

Frameworks & Tools: TensorFlow, Spark, Git, HPC Workflows

Areas of Focus: Software development, algorithm design, data pipelines, scalable systems