

Oliver Peers

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PROFESSIONAL SUMMARY

MSc Computer Science student focused on full-stack software development. Proficient in JavaScript, Python, and SQL, with experience building data-driven and scalable applications. Skilled in feature ownership, debugging, and collaborating in version-controlled, team-based environments.

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, 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

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

- Designed ANN models in Python/TensorFlow to predict ADM1 parameters, achieving 97.9% accuracy.
- Deployed to HPC infrastructure; managed execution environments and debugging workflows.
- 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.
- Managed feature changes through GitHub PRs; planning migration to modular components.

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-informed 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, MATLAB, SQL, R, HTML, CSS

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

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