

LIAM PALLETT

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EDUCATION

- **BEng Computer Science (Software Engineering)**: Expected 2028, University of Sheffield
 - Predicted: First Class
 - Skills: Linear Algebra, Software Engineering Practices, Systems and Network Engineering
- **A Levels**: Completed 2025, The Maelor School
 - A* in Further Maths & Maths, A in Computer Science & Physics (out of 5 A*-A grades overall)
 - Skills: Mechanical and mathematical modelling, Waterfall Development Cycle, Pure mathematics

TECHNICAL SKILLS

- Languages: C++, Java, Python, Ruby
- Tools: Git, Unix Shell, Matplotlib, requests, numpy

PROJECTS

- **open-ftp (C++)**: Satellite telemetry transmission protocol encoding TLE into packets.
 - 64-byte telemetry packet transmission simulator.
- **flight-dynamics (Python)**: Flight dynamics simulator written in Python.
 - Implementation of NASA's isentropic flow equations in Python.
- **satellite-tracker (Python)**: Visualise satellite orbits around the Earth.
 - celestrak.org API calling with the requests library.
 - Orbital propagation with Keplerian orbital mechanics.
- **newtonian-orbit-mechanics (C++)**: Simulate a 2D orbit with Newtonian physics.
 - Implemented a custom physics engine using a custom Vector2D class.

WORK EXPERIENCE

JP Morgan Chase & Co. | London & Glasgow, UK

- **Aspiring Professional Returners**: 6th - 12th July 2025, London, England
 - Applied the Agile methodology in several development workshops run by senior team leaders.
- **Aspiring Professional Program**: 6th - 12th July 2024, Glasgow, Scotland
 - Collaborated with an engineering team to diagnose an AWS database misconfiguration and ensure crucial customer-facing systems stability.

ACHIEVEMENTS

- Member of Sheffield Space Institute society at university. Attended talks on astronomy topics such as orbital simulation and space telescopes.
- Attended NSSC 2026, participating in rocketry simulation with ML and meeting key industry leaders like Astroscale and the UK Space Agency.
- Key contributor to a competitive programming group at university.
- Former member of the Seren Network and current member of the Social Mobility Foundation, charities designed to foster academic, personal and career development.

EXTRACURRICULARS

- Field hockey player for 5 years across two teams displaying teamwork and determination.
- General laborer from June to September 2025 demonstrating reliability and adaptability.