Felix Burton

Education

University of Cambridge
MPhil Mathematical Modelling and Scientific Computing   **09/2025 - 07/2026**
- Lectures include Mathematical Methods for Scientific Computing, Parallelisation for High Performance Computing, Quantum Mechanics, Advanced Atomistic Simulation Techniques, Research Computing.
- Technical modules in Python, C++, CUDA/GPU Programming, MPI/OpenMP, Linux, Data visualisation.

University of Washington
Computer Science, Biochemistry (scholarship exchange)   **09/2023 - 05/2024**
- Lectures include STAT 416 (Machine Learning), CSE 487 (Mathematical Modelling & Algorithms), CSE 391 (Systems Programming), CSE 344 (Databases); BIOC 440, 441, 442. Awarded Dean's List 2023-24.

University of Edinburgh
B.Sc. Biochemistry   **09/2021 - 06/2025**
- Undergraduate recognition award for highest thesis grade. Biochemical Society Awardee.
- Lectures in Quantitative Skills, Structural Biology, Structure & Function of Proteins, Biochemical Techniques.

St Edward's College   **09/2015 - 06/2020**
- IB Score: 37/45 (A* AA) Mathematics, Chemistry, Biology, Psychology, Spanish, English; IGCSEs: 10 A*s.
- Captain 1st XI Football & Athletics; 1st XV Rugby; Member of Econ & Chem Soc.

Work Experience

Wells Wood Research Group   **Edinburgh, UK**
Thesis Student   **01/2025 - 05/2025**
- Developed DeepFlex, a deep learning model trained on MD data to predict protein flexibility.
- Integrated ESM-C embeddings, 3D CNNs, and temperature-conditioned attention mechanism; curated >3 TB of MD datasets (mdCATH / ATLAS) for large-scale training.

Prosper Sports Ltd   **Oxford, UK**
Co-founder and CTO   **09/2024 - present**
- Co-founded a peer-to-peer live sports platform. Led full-stack build and a 4-engineer team.
- Scaled to 3,000+ weekly active paying users; implemented analytics to guide product decisions.

Gartner   **London, UK**
Summer Associate (EMEA High Tech)   **06/2024 - 09/2024**
- Part of the High Tech Division at Gartner Research & Consulting, based in the London headquarters.
- Received full-time graduate scheme return offer for performance.

Classlist UK   **Oxford, UK**
Full-Stack Software Engineer   **05/2023 - 07/2023**
- Worked as a full-stack engineer on Classlist's parent-engagement platform.
- Implemented backend features and APIs; supported data-driven dashboards and internal tools.

Oxford Smith School, University of Oxford   **Oxford, UK**
Research Assistant   **07/2023 - 09/2023**
- Modelled unit economics for green carbon capture/utilisation at Carbonovia, supporting investment cases.

Classlist UK   **Oxford, UK**
Software Engineer Intern   **06/2022 - 09/2022**
- Worked as a full-stack engineer on Classlist's parent-engagement platform
- Used the MERN stack and worked primarily on the frontend of the website and mobile app; also supported data analytics

Oxford Educational Partnership   **Oxford, UK**
Private Tutor   **03/2022 - 04/2023**
- Delivered over 80 hours of tuition to students. Taught Mathematics, Physics, Chemistry and Biology.

Department of Medicine, University of Oxford   **Oxford, UK**
Summer Intern (Brennan Group)   **06/2020 - 07/2020**
- Used scientific software and ran wet-lab protocols; produced experiment reports used by the group.

Skills

Programming: Python, R, Java, C++
Machine Learning: PyTorch, TensorFlow, scikit-learn, JAX, Keras, Hugging Face
GPU & HPC: CUDA, MPI/OpenMP, SLURM/PBS
Dev & Infrastructure: Docker, Git (GitHub/GitLab), AWS, Supabase, Firebase
Web/App: Dart, JavaScript, HTML/CSS, Flutter, MERN/MEAN
Computational Biology/Chemistry: PyMOL, ChimeraX, OpenMM, Biopython, MMseqs2, RDKit, Rosetta (basic)
Teaching: 80+ hours tutoring (Maths, Physics, Chemistry, Biology)
Open Source & Projects: "Data Storage in DNA" (UW); published iOS/Android apps to Play & App store.
Coursework & Schools: Deep Learning (Andrew Ng); Codecademy "Zero-to-Expert"; OxML; Gartner AI/ML courses.

Voluntary Experience

Darwin College Entrepreneurship Society   **Cambridge, UK**
Organiser   09/2025 - present
- Member and have helped organize events with senior members of the society.

Edinburgh University Programming Society   **Edinburgh, UK**
Organiser & Supervisor   09/2024 - 05/2025
- Helped organise and supervised Hackathons and events for 1st & 2nd year undergraduate students.