Daniel Bacon

Little Heath, Crays Pond, Reading, Berkshire, RG8 7QG
07500899010 | danjmbacon@gmail.com | www.danjmbacon.co.uk | linkedin.com/in/danjmbacon

Education

University of Southampton September 2020 – June 2024
- Master of Physics: Second Class Honours

Abingdon School September 2014 – July 2019
- A Levels: Physics - A, Maths - A, Chemistry - B, Further Maths - C
- GCSEs: 9 A*s, 1 A, 1 B

Certifications & Skills

Certifications:
- PCAD (Python Certified Analytics Developer) - Python Institute (2026)
- Analyze Data with SQL & Learn SQL - Codecademy (2025)
- Agile Explorer - IBM (2025)
- Ethics of AI - University of Helsinki (2025)

Programming: Python, SQL, JavaScript, Bash/Command Prompt
Tools & Frameworks: Flask, AWS (S3), Heroku, Git/GitHub, Excel, Tableau, Power Automate
Libraries & Analysis: NumPy, Pandas, Matplotlib, Seaborn, SciPy, Plotly
Other: Data Visualisation, Applied Statistics, API Integration, Problem Solving, Technical Communication

Work Experience

Digital Futures Consultant - Business Analyst March 2026 – present
Full time *London*
- Gather, analyse, and document business and technical requirements, translating stakeholder needs into actionable deliverables.
- Coordinate project activities by tracking actions, managing documentation, and supporting the timely delivery of key milestones.
- Facilitate stakeholder meetings and workshops, ensuring clear communication between business and technical teams.
- Produce and maintain key project artefacts, including requirements, process documentation, meeting minutes, and delivery plans.
- Develop ad hoc Python scripts to automate repetitive tasks, manipulate data, and improve project efficiency.

Digital Futures Academy - Data Analytics Programme September 2025 – 2026
Training Programme *Remote*
- Completed immersive training across foundational, core, and customer-readiness phases of data analytics.
- Built hands-on projects in Python, SQL, and Tableau focusing on data cleaning, exploration, and visualisation.
- Applied statistics, data storytelling, and machine learning techniques to generate actionable insights.
- Successfully completed the PCAD (Python Certified Analytics Developer) certification.
- Developed consultancy skills in stakeholder management, agile methods, teamwork, and presentations.

PhysioActivity - Data Engineering August 2025 – September 2025
Internship *Remote*
- Developed integrations enabling clients to connect platforms (e.g. Strava) and syncronise data securely.
- Gained cross-functional exposure, including front-end development, product workflows, and onboarding processes.
- Enhanced skills in API integration, databases, and web development within a health-tech environment.

Vermeer Partners - Financial Services January 2025
Work Experience *London*
- Researched investment strategies and corporate financial performance.
- Observed executive meetings to understand financial planning, compliance, and decision-making.

Elliott James Consulting - Human Resources September 2024
Work Experience *Pangbourne, Berkshire*

- Spent two weeks at a recruitment firm learning about recruitment in the financial services industry.
- Included direct communication with clients.

The Crown and Thistle - Hospitality September 2019 – February 2020 & September 2024 – August 2025
Bar Supervisor and Bar Team Member *Abingdon, Oxfordshire*

- Bar work, including solo and team shifts, event functions, and opening and closing duties.
- Returned after finishing University and was promoted to Bar Supervisor in December 2024, which involved leading the bar team, maintaining the bar, organising the cellar and stocktaking.

Lady Sew and Sew - Fast Moving Consumer Goods Summer 2018
Work Experience *Henley, Oxfordshire*

- Spent a month working at a local retail company.
- Helped with stocktaking and preparation for Europe's largest quilting and patchwork show, The Festival of Quilts.

IQVIA (formerly Quintiles) - Pharmaceuticals Summer 2017
Work Experience *Reading, Berkshire*

- Spent two weeks learning about IQVIA, an American pharmaceutical company based in Reading.

Projects

Digital Futures Projects September 2025 – Present

- Built an LLM-powered Flask app for cricket analytics using ball-by-ball data.
- Delivered a group presentation analysing customer, financial, and geographic data.
- Completed solo film analysis project evaluating 5,000+ films for budget and revenue impact.
- Collaborated on simulated client projects using Python and ML to model life expectancy and churn.

Stock Trading Bot May 2025 – Present

- Developed a full-stack automated trading dashboard with live portfolio tracking versus SPY.
- Implemented dynamic allocation based on analyst target prices and scoring signals.
- Built interactive visualisations using Plotly and DataTables for strategy performance.
- Deployed on Heroku with AWS S3 caching and scheduled background tasks.

University Masters Project September 2023 – June 2024

- Physics dissertation on particle dynamics comparing Hard Sphere and Lennard-Jones models.
- Simulated 1D and 2D particle systems using Python, reproducing gas, liquid, and solid states.
- Analysed data with speed distributions, autocorrelations, diffusion constants, and pair correlation functions.
- Applied dimensionless scaling for Argon fluid and validated results against theory.

University Discord Server July 2020 – June 2024

- Co-founded and managed a Discord server of 2,500+ members supporting student engagement.
- Automated moderation and events using multiple custom Discord bots.

Interests & Other

Interests

- University of Southampton 1st XI cricket team player and 2nd XI vice captain.
- Participated in two 24-hour charity indoor cricket fundraising events, raising over £5,000.
- Captain of indoor cricket team in the intramural league.
- Oxfordshire U17 county cricket development side and Senior 1st XI cricket at local club, playing in the Thames Valley Cricket League.
- Abingdon School 1st XI cricket, including two overseas tours. Additionally 1st XI football, 2nd XV rugby, and other recreational sports such as squash, table tennis, and chess.

Other

- Social Secretary for the Physics Society at the University of Southampton, planning and running events with 100+ members.
- Independent travel in Australia during gap year, 2019–2020 and extensive travels elsewhere.