

Education

University College London (UCL), London (2021 – 2025; first year):

MEng Computer Science, on track for **First** (ongoing).

- **Data Science and simulations** – Data science skills used to measure and visualise performance of programs, and to confirm theoretical hypotheses with empirical measurements. Such testing recently informed choice of data structure in a project, **improving performance 12x**. Skills in Python data science primarily.
- **Leadership** – Building on data science work, developed a more complete program to measure and visualise performance of code. Responsible for dividing work alongside testing and integrating modules produced by teammates. Difficulties encountered when a small portion of modules failed tests. I worked with teammates to resolve problems and produce a fully functional program. Final solution **passed all tests and met requirements**.
- **Cloud and IoT** – Team developed a machinery control system. I integrated a cloud platform into the control system, sending data from an IoT Micro Controller to the cloud. This allowed **operation of machinery to be monitored and controlled from anywhere**, worldwide, with automated alerts if parameters left safe range.
- **Report Writing and presentation** – Researched, wrote, and presented a risk assessment to control system team, which lead us develop disaster recovery recommendations to use 3G networks based on existing infrastructure.

Hyndland Secondary School (2015 – 2021):

- Advanced Highers: 4 A; Mathematics, Mathematics of Mechanics, Physics, Computing, NPA Cyber Security
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Technical Experience

Technologies explored beyond curriculum:

- **Web & Cloud** – Expertise in web development, using a range of technologies, from classic LAMP solutions to more modern JavaScript or cloud Content Delivery Networks. **Vital to improve clients' cloud solutions**.
 - **Digital Operations** – Interest in scalability, agility, and resilience of projects. Particularly, impact of total data visibility paired with effective use of Service Level Objectives / Agreements. Hoping to apply this, and exploring more cultural changes, such as stronger integration between digital and product teams, to clients' projects to reduce their technical debt or improve performance and efficiency while **providing long-term value** to the client.
 - **Security** – Broad cyber security knowledge and experience through numerous online and in-person training programmes, as well as security competitions and challenges. **Achieved 96% in GFACT Beta exam**. Interests lie in infrastructure, network security and incident response. Developed basic security strategies for SMEs.
 - **Interest in learning about technology** – Pursued all presented opportunities to the fullest, constantly learning about data science, cloud, networking and the basics of AI, looking to apply this further.
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Work Experience

London Strategic Consulting – Digital Consultant, London (January to March 2022):

Digital and strategy consulting for a client wishing to improve their web presence and move into a new market.

- **Client relations** – Worked with the client to produce a set of recommendations to improve their new web marketplace. Based on empirical measurements, research, and analysis, I developed a set of recommendations which should **improve page performance by 50% in the short-term and as much as 90% in the long term**.
- **Communication** – Constant communication within the digital team to ensure that work was divided effectively, and approach was unified, as well as communicating with the strategy team to take a combined approach, using the market research knowledge, and understanding of the client's customer base to evaluate their web site.
- **Presentation and deck building** – I worked with my teammates to produce a mid-term and final presentation based on our findings, working to ensure it is succinct, clear, and encompassing. I presented the digital findings.

T-Systems MMS – Intern, Dresden (July 2019):

Intern-run software project to develop an online social platform for other students.

- **Efficient Teamwork** – Responsible for user authentication and security. This involved working on all components of the project, I worked with colleagues to determine which security measures would be effective and practical to implement, without damaging general system operation. This required compromises to be made all round, with a **final solution satisfying all stakeholders**, while having a robust site with secure user management.
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Other notable skills

- Languages – Native **English** ability and near native **German** ability, work experience in UK and Germany
- **Walk leader** at **UCL Hiking** club & experienced Scottish hill navigator. Provisional DofE Gold award.