

Lewis Thackeray

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Tenacious and highly motivated second-year Computer Science student at the University of Reading with exceptional knowledge of various programming languages and an avid interest in High-Performance Computing. Exemplary communication skills honed through hands-on experience within the retail and construction industry.

EDUCATION

BSc Computer Science with Industrial Year (Hons), University of Reading 2023 - Present | *On Track for a First-Class Honours*

- **Applications of Computer Science:** developed a firm understanding of Artificial Intelligence (AI) and the different sub-fields. Applied the knowledge gained in lectures to create Python programs that utilised the techniques learnt, like maze-solving programs and tracking algorithms.
- **Fundamentals of Computer Science:** built on my understanding of the basic principles of Computer Science and explored the components of a computer, emphasising the engineering and mechanics required for their function.
- **Mathematics and Computation:** acquired a robust understanding of mathematical techniques frequently used within industry, like matrices and calculus, while gaining proficiency in solving mathematical equations using MATLAB.
- **Programming in C/C++:** learnt to code in the programming languages C and C++. Forged an excellent comprehension of different testing techniques and other processes in the programming stage of the Software Development Lifecycle (SDLC).
- **Human-Computer Interaction (HCI) and Web Development:** developed an understanding of the psychology behind website design and the HCI and Design Lifecycle. Developed expertise in creating web pages using HTML, CSS and JavaScript.
- **Software Engineering: Fundamentals and Professional Development:** attained an adept understanding of the Software Development Lifecycle (SDLC) along with the different Software Development methodologies, while comparing them to decide the best methodology to use in a certain scenario.
- **Data Structures & Algorithms:** acquired an understanding of fundamental data structures and algorithm design strategies whilst developing my understanding of complexity analysis.
- **Databases:** learnt how to design a database by applying specific data models, implementing a database in a relational environment, and managing a database system to structure, store, access, and retrieve data effectively.
- **Object-Oriented Programming:** acquired a robust understanding of Java and used it to develop object-oriented programs, whilst learning to design them efficiently.

Rochester Independent College 2019 - 2023

- **A Levels:** Computer Science (B), Physics (B), Mathematics (C). My project for my A-Level Computer Science qualification was an electric car routing application, written in Python which consisted of a user interface in Tkinter and a relational database.
- **GCSEs:** 9 GCSEs with grades ranging from 9 to 5 including English and Mathematics.

WORK EXPERIENCE

Project Management Intern, WCB Utilities 2024 (Paid)

- Enhanced my teamwork skills by working within a team of four people to manage gas mains replacement projects, as well as liaising with the public to reduce the impact of the work carried out.
- Developed my coding skills in JavaScript by producing solutions to streamline time-intensive processes within the business.
- Managed several vital processes within the business like the letter-sending process, ensuring that the public was kept informed regarding works carried out, which required good organisation and written communication skills.
- Applied my knowledge from my software engineering module at university to the construction industry allowing me to provide a different viewpoint when managing projects which required analytical thinking and applied problem-solving skills.

Team Member, Treats on a Tricycle 2022 (Paid)

- Established a strong reputation, in the hospitality industry, by forging excellent relationships with customers, venues and other businesses.
- Expanded upon my communication skills through verbal and written communication with customers and other team members as well as liaising with venue managers.
- Developed budgeting skills through cash handling and ensuring that pre-ordered packages were delivered.
- Proactively ensured that the tricycle was constantly topped up with sufficient product to ensure there was no delay in the delivery to the customer.

Seasonal Fruit Worker, James Lowe 2021 (Paid)

- Managed a team of fruit pickers whilst managing targets to ensure good productivity.
- Facilitated the payment of workers at the end of the working day.
- Operated a fruit stall whilst ensuring that the stall had sufficient stock levels to meet customer demand at various points in the day.
- Developed budgeting and negotiation skills when engaging in transactions with customers and ensuring that bulk orders to London markets were fulfilled and ready to be transported.
- Displayed excellent presentation and marketing skills when setting up the stall for customers.

VOLUNTEERING

IT Assistant, Rochester Independent College 2022 (Voluntary)

- Adhered to health and safety regulations when operating in construction environments.
- Collaborated with other members of the IT team when using technical equipment to connect a classroom to the internal network in the school.
- Using strong organisation skills by expanding upon the school's IT suites by deploying and setting up 28 iMacs and connecting them to the network.
- Gained knowledge of the different hardware and software processes that were used in the deployment of different systems throughout the school.

ADDITIONAL EXPERIENCE, RESPONSIBILITIES AND QUALIFICATIONS

Edinburgh Parallel Computing Centre (EPCC) High-Performance Computing (HPC) Summer School 2024

- Developed my knowledge of the fundamental frameworks and standards in high-performance computing, like OpenMP and MPI.
- Gained insight into the structure of a High-Performance Computer through a tour of the Advanced Computing Facility.
- Engaged in workshops relating to specific use cases of High-Performance Computing like Computational Fluid Dynamics, where we used the Reynold's Number to predict the flow pattern of a fluid.
- Explored emerging technologies through interactive presentations in the fields of Quantum Computing and Exascale Systems.
- Networked with industry specialists to forge meaningful connections.
- Developed complexity analysis skills by analysing the properties of the code, to understand the resources it would require on the High-Performance Computer.

Corsair: Sales Operations Team (Work Experience) 2024

Acquired an understanding of the technology stack that Corsair use to distribute its products across EMEA while maintaining meaningful relationships with its distribution partners

University of Helsinki: Introduction to Artificial Intelligence (Online Course) 2022

Developed a solid understanding of several subfields of Artificial Intelligence whilst applying this knowledge to create Python programs utilising the techniques taught.

Lloyds Banking Group: Commercial Banking Online (CBO) Team (Work Experience) 2022

Gained insight into the technology and data stack used for developing the Commercial Banking Online platform, used by major businesses throughout the UK, and the tools used to measure system health and performance.

School Ambassador and Councilor at Rochester Independent College (Responsibilities) 2019 - 2023

Attended and contributed to school council meetings whilst managing key initiatives for the school. Additionally, created social media content for prospective students and their parents whilst acting as a point of contact to facilitate incoming questions.

IT Skills: Proficient in using a variety of IT suites like Microsoft Office and Google Workspace. **Driving Licence:** Full.

INTERESTS AND SOCIETIES

Entrepreneurship: I have an avid interest in entrepreneurship and am currently building my own business, looking to sell innovative software solutions to businesses.

Investing and Personal Finance: I am a keen investor and manage my finances and investments very carefully whilst staying fully up to date on current affairs to help me make the right investment decisions.

High-Performance Computing (HPC) Society: I am in the process of setting up the High-Performance Computing society at the University of Reading, this is the first academic year the society is running, aiming to solve computationally intensive problems whilst providing our services to businesses in the local area.

Physical Fitness: I go to the gym every morning and incorporate a hybrid style of training which is a mix between weightlifting and cardio. This has helped me to develop discipline in my routines and sets me up for the day.

Travelling: I enjoy travelling to different cultures to gain new perspectives of the world and experience different cultures. Most recently, I recently travelled to Japan where I spent time in Tokyo and Kyoto.

REFERENCES AVAILABLE UPON REQUEST.