**Luna Lamb**

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<https://lambxx.github.io>

**EDUCATION**

**University of Edinburgh**

**BSc, Computer Science Sept 2020 – May 2022**

Modules in object-oriented programming (Java), Functional programming (Haskell), mathematics, Data Science (Pandas/Seaborn/Python), Machine Learning (DPLL), Algorithms and data structures (Python), Computer Architecture (C, MIPS) and Software Engineering (Java)

Outside modules: Introduction to Gender in the Contemporary World, Queer Studies.

**Manchester Metropolitan University Sept 2023-June 2025**

Modules to be completed this year:

Algorithms and data structures, Networks, Industry and community engagement, Ethical Hacking, Operating systems, Software development,

**Varndean College Sept 2017 – May 2019**

**A-Levels:** AAA\* in Maths, Computer Science, and Photography.

**Dorothy Stringer School Sept 2013 – June 2017**

**GCSEs:** 9 GCSEs (Equiv. 2A\*, 3A, 4B) including A\* in Maths, A in Computer Science, B in English.

**Free Standing Maths Qualifications:** A in Further Maths, B in Advanced Additional Maths.

**WORK EXPERIENCE**

**Format Coffee Brighton Aug 2022 – Sept 2023**

**Manager**

* Key Holder,
* Ensuring consistent quality of Artisan Coffee.
* Training new staff.

**Leaf and Bean Edinburgh May 2022 – Aug 2022 Supervising barista**

* Key Holder.
* Independently ran café.
* Managed and assisted with training of new staff members.

**Information Services University of Edinburgh**

**Web Development Intern**

* Worked independently to implement the backend PHP/jQuery project.
* Worked with a large team in an agile methodology.
* Assisted in time-sensitive implementation of the testED website project
* Independently completed LinkedIn learning modules to assist in training.

**Private tutor June 2018 – present**

* Delivered over 400 hours in Mathematics and Computer Science tuition, with all lessons rated five stars by students.
* Managed the stress and anxiety of parents and students leading up to exams.
* Adapted teaching styles to meet the needs of students from primary to A-Level.

**Varndean College**

**Learning Coach for Mathematics Sept 2019 – May 2020**

* Supported Students on a 1:1 basis, managing queries and concerns relating to exam material and exams.
* Collaborated with all staff members within the mathematics department to effectively aid them.
* Understood and applied professional practices and safeguarding in a sixth-form college environment.

**Kodak Express Brighton**

**Staff Member June 2018 – Sept 2019**

* Independently ran day-to-day operations of the shop.
* Managed handling of the transfer of irreplicable film to digital files.
* Assisted customers with the use of technology, including purchased devices and self-service machines.

**School Apps Ltd**

**Company Assistant (work experience placement) Jul 2016**

* Worked with company manager to answer customer queries and resolve issues.

**PROJECTS**

**Social Statistics Hackathon 1st place Sept 2023**

I participated in the Social Statistics Hackathon hosted by the Department for Social Statistics at the University Of Manchester. My colleague and I’s presentation on the impact of disability, ethnicity and gender on educational attainment outcomes using the 2021 census data won us first prize. I was responsible for the data analysis; I used Python in Jupyter Labs to create visualisations and model data. I also used my critical thinking skills and knowledge of sociological factors to discuss the relevance of these findings and compare them to current literature. Winning this prize, especially when competing against postgraduate students with a wealth of experience, was a proud accomplishment and attested to my skills.

**Website Manager**

I am the sole website manager for a large charity. In charge of checking if content is up to date and adding

new content on their WordPress-based site.

**Impact of gpt**

I am passionate about education, and I am currently working on a project to explore the impact of GPT on the enviroment, thinking about how we can use data science to educate and empower. This is an Ongoing project I intend to expand on, and you can see it here: <https://lambxx.github.io/ImpactOfGPT>.

**Ecotech Explorers: Greener Computing Project**

I will work in a team throughout October and November, investigating the impact of computing on society and presenting a project at the end.

**Linked-In Learning Courses**

I am continually looking for ways to increase my skillset; LinkedIn learning is one of the ways I do this. I have recently completed a course in the R programming language. I am finishing a study on Git and working through courses to prepare for my CCST networking certification. You can check my LinkedIn to see an up-to-date list of courses I have completed.

**Ticket system**

I worked in a team of 4 to create a Java-based application with complete documentation following an agile methodology. We also developed class diagrams and Unit tests. I was using git throughout.

**Data Science Paper**

Created a complete data science report following the structure of an academic paper. Using Pandas/Seaborn in Jupyter for the statistical analysis and visualisation.

**Modelling CPU**

I used the C programming language to model the CPU, achieving a near 100% mark, aiding my overall 85% grade in computer systems.

**Generative Art**

I used P5.js to create a portfolio of generative art, following tutorials.

**Volunteer for a small charity organisation**

Used WordPress to design and develop a website, given a colour palette and logos. Helped curate social media content. Assisted with day-to-day administration and operation of the charity.

**Connect Four game**

Implemented command-line Connect Four game in Java. Documented design process and explained design decisions.

**Shop management system**

Designed and implemented user interface and backend for shop management system in Visual Basic. Outlined success criteria, identified stakeholders and customers, tested the program against success criteria and documented the testing process.

**Traffic speed system**

We implemented a system to calculate car speed and identify speeding vehicles in Ruby.

**Extracurriculars I have enrolled in for this year :**

* I will participate in the Manchester University social statistics hackathon this month.
* I have joined the Girls Who Code Society at MMU to be an active member so that I can run for president in the following year, as helping more young women gain a footing in programming is an area I am immensely passionate about.
* I will be joining the British Chartered Institute of IT to undertake the webinars and training this will provide.
* I am working on a personal website to showcase my skills better; I intend to combine my mathematical knowledge alongside my coding and creative abilities to create unique creative elements using JavaScript.
* I have volunteered at a new non-profit and will be helping maintain their WordPress-based website.

**SKILLS AND INTERESTS**

**Programming languages:** C#, Java, Haskell, Python, DPLL, MIPS and C (university); PHP, Java and jQuery(Internship ); Visual Basic (A-Level); Ruby (GCSE); HTML and CSS.

**Tools:** Drupal, Juypter, Microsoft Office suite, Git and GitHub, WordPress, LaTeX.

**Interests and Areas of Study:** Data Science, Software Engineering, Human Computer Interaction and Ethical Practices.