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Motivated and disciplined second year computer science student at the University of Manchester.

## Education

<b>Undergraduate</b> Sep 2023 - Present	<b>University of Manchester</b> , Oxford Rd, Manchester M13 9PL BSc Computer Science, achieved first-class grade in first year <b>79%</b>  COMP10120 First Year Team Project <b>80%</b> COMP11120 Mathematical Techniques for Computer Science <b>77%</b> COMP11212 Fundamentals of Computation <b>80%</b> COMP12111 Fundamentals of Computer Engineering <b>85%</b> COMP13212 Data Science <b>81%</b> COMP15111 Fundamentals of Computer Architecture <b>74%</b> COMP15212 Operating Systems <b>84%</b> COMP16321 Introduction to Programming 1 <b>82%</b> COMP16412 Introduction to Programming 2 <b>70%</b>
<b>A-levels</b> Sep 2021 - Jun 2023	<b>Kingston Grammar School</b> , 70 London Rd, Kingston upon Thames KT2 6PY Computer Science (OCR) <b>A*</b> Mathematics (Edexcel) <b>A*</b> Further Mathematics (Edexcel) <b>A*</b> Physics (AQA) <b>A*</b> Level 3 Extended Project Qualification (AQA) <b>A</b> , titled "An exploration of the Generative Adversarial Network and its applications within Deep Learning."
<b>GCSEs</b> Sep 2016 - Jun 2021	<b>Kingston Grammar School</b> , 70 London Rd, Kingston upon Thames KT2 6PY 9 GCSEs grade <b>9</b> Free Standing Maths Qualification (OCR) <b>A</b>

## Experience

<b>Mathematics tutor</b> Nov 2022 - Present	<b>Self-employed</b> Regular sessions with students, KS2 and KS3 level mathematics. This includes on-site and remote learning.
 <b>Court services</b> Jun 2024 - July 2024	<b>Wimbledon AELTC</b> , Bank Ln, London SW15 5JT Dressed and covered grass tennis courts. Assisted players, staff and spectators.
 <b>Technician</b> May 2022 - Nov 2022	<b>The iT Store</b> , 10 Thames Street, Kingston upon Thames KT1 1PE Apple product repairs, customer service and retail sales. This required knowledge surrounding Apple's product line.
 <b>Food runner</b> Jun 2021 - Aug 2021	<b>The Oak</b> , 98 Richmond Rd, Kingston upon Thames KT2 5EN Taking orders, collecting glasses and food running. Being part of the bar team required communication and coordination.
 <b>Internship</b> Jun 2021 - Jul 2021	<b>Goldclipper Computing</b> , 35 Beresford Road, Kingston upon Thames KT2 6LP Using Oracle Application Express software, developing an application. The application was used to track employee time sheets and calculate payslips.

## Projects

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<b>Starmapper</b> May 2024 - May 2024	<b>Manchester University Student Hackathon 2024</b> Web app to identify stars and clusters from an uploaded image. We created a machine learning algorithm to identify constellations.
<b>lightr</b> Sep 2023 - Jun 2024	<b>1st year team project</b> Workout tracking web app using HTML, CSS, JavaScript, Flask and SQLite3. Users log gym exercises, track food intake, customise profile and view progress graphs.
<b>Ninja Fruit</b> Jul 2023 - Jul 2023	<b>GMTK Game Jam 2023</b> Unity game created within 48 hours, leading a team of three people. Players throw fruit at enemies and progress through multiple levels.
<b>Gardening Game</b> May 2022 - Jun 2023	<b>A-level Computer Science NEA</b> A gardening game made in Unity, including a project write up. Players collect plants and water, and grow them to earn coins.
<b>EPQ</b> Sep 2021 - Jun 2022	<b>Dissertation exploring the Generative Adversarial Network</b> Research into the GAN, including an overview of machine learning. Studied the design of the model, along with a variety of use cases.



## Additional

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My passion for computer science ignited upon receiving a Raspberry Pi in 2012. Since then I've familiarised myself with programming languages such as **Python**, along with the use of **Linux** and **Bash** scripting. Use of the **Unity** game development platform offered me strong **C#** experience. Studying computer science at University has taught me new skills including **Java**, **C**, **Verilog** and **ARM assembly**. Web development modules also helped me learn **HTML**, **CSS** and **JavaScript**.

Technical skills aside, I pride myself in my **discipline**, **motivation**, **teamwork** and **communication** skills. Competitive swimming from a young age implemented strong routine into my life. 5 years within the cadet force aided my ability to carry out assigned tasks, decompose problems for delegation, and teach others. Tutoring young students has built upon this teaching experience. I am eager to contribute these skills to a professional environment, leveraging my academic achievements and industrial experience.

In my spare time, I enjoy regular exercise in my local gym and swimming pool. Travelling through different parts of the world has opened my eyes to new ways and methods of thinking. Spending time with my friends and family will always be a fundamental part of my life. Working on personal projects and tackling problems such as on LeetCode keeps me busy when I have time to myself.

Looking into the future, I plan on studying machine learning and AI in further depth, along with strengthening my programming skills and broadening my knowledge within the field of computer science.

## References

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### Employment

Jamie Hepburn

Director, Goldclipper Computing  
jh@goldclipper.co.uk

### Academic

Sean Bechhofer

Personal tutor  
sean.bechhofer@manchester.ac.uk