In 350 words, please explain why you are interested in working for Graphcore and what you hope to learn/achieve from completing this internship.

With the field of AI and machine learning at the forefront of current advances in the computer science industry, this internship would provide me with an opportunity to get first-hand experience with the current innovations in the space. During my Data-Driven Computer Science unit at University of Bristol I have developed a keen interest in data analysis in Python. I have really enjoyed using the Pytorch and Scikit-learn frameworks to see how data can be processed in a variety of ways and the challenges faced when trying to fit models to data, as it provides an exciting application of the statistics and linear algebra which I have studied in the mathematics side of my joint course. I think this internship would be a great chance to see the work that goes into supporting these frameworks and I hope to learn about the unique process of interfacing with the Graphcore IPU.

I hope to learn and build on my current skills with Python in real world problems. I would also hope to cement my communication and team-working abilities which I have gained as a committee member of the University of Bristol Cycling Club. Furthermore, I wish to achieve a deeper understanding of the work that goes into the development of frameworks for your IPU, in addition to how the world leading teams at your business deal with problems and produce solutions in an action-oriented manner.

In 350 words, If you were successful in gaining this internship, how would you go about understanding how Graphcore works as a business?

If I were a successful applicant, I would strive to gain a full understanding of the work Graphcore does, I would learn about the different IPU products that Graphcore creates and how customers go about implementing them into their workflows. Additionally, I would research how the Poplar SDK forms a bridge between the IPU and machine learning frameworks like Pytorch and TensorFlow. As well as the purposes of different libraries in the Poplar software stack and how they operate together.

Furthermore, I would aim to gain a deeper understanding of the values and culture that Graphcore promotes. As a part of the Industrial mentoring scheme at University of Bristol I have met several times with Luke Hudlass-Galley, one of your research engineers and Bristol graduate, from whom I have already heard about the inclusive and stimulating environment that working at Graphcore provides. I would further my understanding of the goals and challenges that the role would entail so that I could be a great team member from the very first day.

Finally, I would read up about the competitors within the machine learning processor space such as Nvidia, whilst understanding how Graphcore aims to entice customers and grow its user base within the market.

Is there anything else you wish to share with us? Please provide useful information, above what is included on your CV. Use this section to provide additional information about you, your skills and why you should be considered.

In addition to the information included on my CV and cover letter, I would like to highlight my passion for AI. I enjoy reading about developments in the area and this role would be a great opportunity to be part of cutting-edge work in the field.

As well as my technical skills, I will bring drive and determination to any collaborative team environment. I believe my analytical problem-solving skills which I have developed in the mathematics side of my degree will be an asset to the frameworks team, whilst helping me to provide alternative and original ideas in a range of discussions. My ability to learn quickly and independently prepares me well for the technical aspect of the role, allowing me to build on my previous experience in languages including Python, C, Java, among others. Finally, I would be well suited to the inclusive and supportive values at Graphcore, and I would strive to help others in their work and contribute to the friendly atmosphere at the company.