

JONATHAN MARRIOTT

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Dear Hiring Manager,

RE: Application for **Software Engineering Internship at Jump Trading Bristol**

I am writing to apply for the software engineering internship advertised on your website. I am currently in my penultimate year studying Mathematics and Computer Science (MEng) at the University of Bristol.

I am particularly interested in this position as I would love to build on my software development skills in the context of a high-performance distributed trading system. Last term, I worked in an agile team on a software engineering project relating to models used by 3D printers in Java. Throughout this project, I gained experience in interfacing with an external client and communicating development requirements with them. In addition to a variety of skills I acquired about working in an agile manner within a team, I also gained practical knowledge in multithreading algorithms and using git version control. I believe I could bring these skills to your intern role while continuing to learn about producing high-performance software.

As a teaching assistant at the University of Bristol for the 2nd year Algorithms course, I have a strong understanding of data structures and algorithms, and the skills to explain them to others. Additionally, I am studying advanced algorithms this year and I would be highly interested in applying my growing knowledge in this area to solve complex problems and build solutions from scratch.

Furthermore, I have worked on projects using both Python and C, often in Linux under WSL. Implementing linked lists and a basic sketching tool in C, as well as several object-oriented applications including a board game and multithreaded 3D model analyzer in Java, so the syntax and object-orientated paradigm of C++ will be very familiar to me. I have taught myself the electric guitar in my spare time, so I am no stranger to learning new skills independently and would pick up C++ quickly.

I also believe the interpersonal skills I have gained in my time on the University of Bristol Cycling Club committee, in addition to my experience in time-pressured work as a Deliveroo rider, will enable me to fit well in the fast-paced team environment that your internship provides.

I trust the skills and experience evidenced here, and in my CV, make me a perfect candidate for this internship at Jump Trading and I am excited at the opportunities it would provide. Thank you for your consideration and I am available for an interview at any time.

Yours faithfully,



Jonathan Marriott