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I am a 4th year student in Computer Science here at the University Of Lethbridge, As I go into my last semester or two at the University I have been looking for something to focus on in my Graduate degree. Algorithms have always been very interesting to me, how they work, what makes them efficient and how can we optimize them for best case efficiency. In this instance, it's something I want to learn more about, gain valuable knowledge and experience from you guys. Last year In Computer Graphics I did some research on the Cohen-Sutherland Algorithm for Polygon clipping in 3D graphics. We applied this Algorithm into a 3D space using the Open-GL library in C++. I built a fascination with this through my research that sparked my interest on how important Algorithm design is.

This Semester I have taken Data Structures and Algorithms with Professor Benkoczi and have found a love for how open Algorithm design is and how creative you can be with idea's. With advancing technology in the Quantum computing space this is something I have always wanted to find a way into and with the help of the research team it could give me some amazing experience.

As to working in a team, I previously had worked an internship as a Junior Software Developer (stated on my resume) where I worked in a team of 5 people in "Technical Services" developing the back and front end of a multi-million dollar investment for the company. We learned together and solved many different issues throughout the course of my internship. In my courses throughout my undergraduate I have valued the experience I have gotten from working in groups on massive cap-stone projects for each course. In Computer Graphics I worked with a group of four to design a fully functioning Solar System with API's in JavaScript. I had previously never programmed in JavaScript but I learned quickly, we used information from NASA to size the model and wrap the textures around it. I had to learn syntax and functionality to CSS, HTML, and JavaScript within a month's span so it was tons of reading and practicing different things with my teammates to see what would be most efficient.

As for programming in Python and MatLab, I have previous experience with it. Python I have used to write some scripts in my internship and for MatLab, we used it in an elective I took here at the University. I am a great programmer in C++ so I understand the core concepts of high level programming languages. I have done some work in run time analysis in my programs and have played around with libraries to make my programs run faster and more efficient.

I am Mathematically inclined, I have taken all my required Math courses and some extra, each I have done well in and understood the concepts given. Math is a major part of Computer Science so I do not shy away from it when a challenge is given.

About myself, I am a strong willed individual. I strive to perform to the best of my abilities, I work while I go to school 5 days a week. I am willing to finish any task given to me regardless of the requirements. I have prior experience working remotely and have shown an amazing work ethic to my previous team leaders. I do live across the street from the University thus, I am available for all team meetings held in person. I have backpacked 13 countries across the planet with my best friend. I speak two languages, English and Spanish (not fluent). I am a part of the Computer Science Club here and love to help my other classmates with problems they face. Securing this position would be highly meaningful to me and I am confident that I can contribute significantly to any team I join. Below I will attach all my 3rd and 4th year level classes I have taken or that seem valuable.

COURSES

Thanks,
Luke Zosiuk

In all courses in my major I have managed a 3.0+ GPA

MATH 1410 – Elementary linear Algebra
MATH 2000 – Mathematical Concepts
SCI – Quantitative Reasoning
CPSC 2610 – Digital Systems
CPSC 2720 – Practical Software Development
CPSC 3710 – Computer Graphics
CPSC 3780 – Data Communications & Networking
CPSC 3615 – Computer Architecture
CPSC 3620 – Data Structures and Algorithms
CPSC 3730 – Cryptography

Courses I am taking in the fall

CPSC 4660 – Database Management
CPSC 3740 – Programming Languages
CPSC 4110 – Studies In Algorithms