

September 20, 2024

Safe Software Inc., Engine Product Development
Surrey, British Columbia

Dear Hiring Manager:

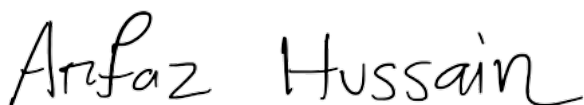
I am writing to express my strong interest in the *C++ Software Developer* Co-op at Safe Software. I am a software engineering student at the University of Victoria in British Columbia. I am eager to learn and grow in the field of computer and software engineering, and I believe that this role will help me gain valuable work experience related to my interests and help me acquire a practical understanding in a real-world setting.

Throughout my academic endeavours, I have had the chance to explore and learn about many important concepts in software engineering, such as object-oriented programming, software architecture design, agile methodologies and software testing. My academic and project experiences align well with the requirements of this position:

- **C++ Projects and OpenGL:** I developed a 3D Rubik's Cube simulation using C++ and OpenGL, where I implemented GLSL for enhanced visual effects. The project featured intuitive keyboard controls and dynamic zoom functionalities, showcasing my ability to write performant, interactive code.
- **Agile Experience and Tools:** After completing a comprehensive Udemy course on Agile methodologies, I worked extensively with Jira and Monday to manage sprints and collaborate with teams. My experience in Agile sprints has helped me streamline workflows and improve team communication.
- **Computational Geometry Expertise:** Through some of my C++ and Java projects, I've applied computational geometry principles, where I focused on precision and optimizing 3D transformations. I also tackled challenges with floating-point error mitigation which ensured accurate visual simulations.
- **Version Control and IDE Proficiency:** I'm proficient in Git, regularly using it for version control and collaborative development. I also have hands-on experience with Visual Studio and VS Code for debugging, writing, and managing complex codebases efficiently.

I am currently available for a **4-month** work term and would be open to the possibility of participating in more than one consecutive terms. Thank you for considering my application. I look forward to the possibility of speaking with you further about this role.

Most Sincerely,



Arfaz Hossain (He/Him)
Software Engineering Student,
University of Victoria