

Jackson Place NW
Calgary, AB
T3B 2V3
☎ 825-365-5113
✉ zhijiexiacs@gmail.com

McDanielAssociates Consultants Ltd.
Calgary, AB, Canada

February 4, 2023

Dear Hiring Manager,

I am writing to express my strong interest in the **Software Engineer Intern** position at **McDanielAssociates Consultants Ltd.**. As a **Computer Science** student at **University of Calgary**, I have developed a deep passion for technology and a strong motivation to become a skilled computer scientist. My passion helped me achieve an **excellent GPA** of **3.94/4** and earn multiple **scholarships**.

In addition to my academic background, I have developed technical skills in Linux, programming, and compiler design. I am proficient in web development technologies such as **React**, **Next**, **Express**, and **Node**. I have experience with databases like **MongoDB**, **MySql**, and **Sqlite**. I am skilled in Linux and programming in UNIX environment. I am also familiar with low-level languages like **C++**, **C**, and **RUST** for system programming, as well as debugging tools like **gdb** and **valgrind**, and profilers like **gprofile**. I have experience with **Python** and **Tensorflow** to add **machine-learning** as a tool in my previous projects.

I have applied these skills in research projects focused on **human-computer interaction** and **system security**. For example, as an undergraduate researcher at the **Programmable Reality Lab**, I developed a real-time video sketching system and submitted a paper to **ACM SIGCHI 2023** as **leading author**. I am highly adaptable and eager to learn new technologies and skills, as evidenced by my attendance at leading conferences in cybersecurity and human-computer interaction. Currently, I am working on a project investigating the design flaws of the Android permission system, with the aim of submitting a research paper to **USENIX 32nd**. Through my research experience, I have gained experience working in **fast-paced** and **deadline-driven** environments, and **I am comfortable with changing demands**.

I am confident that my technical skills and passion for learning will make me a valuable addition to the **McDanielAssociates Consultants Ltd.** team. I would be honored to have the opportunity to work as a **Software Engineer Intern** and contribute to the success of your company. I have attached my resume and transcript for your review and am available for an interview. Thank you for considering my application. I look forward to discussing this opportunity further.

Sincerely,
Zhijie Xia