

# Zejia Cai

## Junior Software Developer

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# TO

### Hiring Manager

Ada

96 Spadina Ave. unit 801

Toronto, ON M5V 2J6

May 13th, 2023

Dear Hiring Manager,

My name is Zejia Cai (James) and I would like to express my enthusiasm for the Web Developer Intern position within Ada that's posted on LinkedIn. I have been learning about your company and I am impressed by the company culture and commitments that your company has made to diversity, the optimization of the digital world using AI, and work life balance. My passion for these principles aligns perfectly with Ada's vision. I have proven my ability to accomplish hands-on tasks and solve unfamiliar problems, and I would be thrilled to use these skills to help the company to make positive change to the world.

During my research project at SFU, I designed and implemented a software tool for enhancing 3D models with human-interactive components, which honed my problem-solving and time management abilities, and allowed me to adapt rapidly to new technologies. This research project comprises engineering concepts, 3D models, C#, and RhinoCeros, which I had never learnt in my courses. However, I managed to learn all the unfamiliar concepts and finished the project in just 6 months while I was taking another four courses. Since the software tool is open sourced, therefore, I have ensured it is clean and maintainable, with comprehensive software documentation, as I typically do. During the project, my role required significant collaboration with a multidisciplinary team that defined requirements, design solutions and test functionality throughout the whole project, which prepared me to work effectively in Ada's collaborative, global environment. This paper will be published in October.

In addition to my research project experience, I have experience working with implementing software applications using C/C++, Python, Java and Kotlin. Additionally, I have a strong background and hand-on experience in machine learning and computer vision. For example, I have recently developed an AI tool that detects anomalies in medical images by using COVID-Net. More recently, I have developed a video processing system to analyze people's emotion states using YOLOv8. I have a strong interest in AI technologies and am thrilled to apply my knowledge in more real world projects. Moreover, I was in the role of backend developer for a final project of a Web System Development course. Therefore I also have a solid knowledge in web system development.

Additionally, my experience with version control systems like Git, along with my strong communication and problem solving skills will allow me to make significant contributions to your team. As a person who experiences many different cultures, I hope my experience can help Ada to make more impact in the digital world. I would enjoy discussing with you more about my qualifications for this position. Thank you for your consideration and I am looking forward to hearing from you soon.

Sincerely,

Zejia Cai