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May 7, 2024  
Lumeto  
Toronto, ON

Dear Hiring Manager,

I am writing to express my interest in the CV/ML Intern position for 3D Digital Humans at Lumeto. With a strong background in computer science, extensive development experience, and a passion for leveraging machine learning to enhance healthcare outcomes, I am excited about the opportunity to contribute to Lumeto's innovative projects.

My academic journey at the University of Waterloo, where I am pursuing an Honours Bachelors of Computer Science, has equipped me with a solid foundation in algorithm design, data abstraction, and software development techniques. During my summer internship at the Canadian Surgical Technologies and Advanced Robotics (LHSC), I automated the reporting process for course participant data, significantly reducing the time required from 40 hours to just 10 minutes using a data sorting algorithm. This experience honed my problem-solving skills and demonstrated my ability to apply machine learning techniques effectively. While working at CSTAR, I also had the opportunity to speak with a doctor who was looking into the applications of ML in detecting cancerous tumors, so I have exposure to this field, we also worked with lumeto products to train students!

In my role at Kumon North America, I instructed over 300 students in mathematics, ranging from basic arithmetic to advanced calculus. This experience not only refined my technical teaching skills but also developed my ability to communicate complex concepts clearly and empathetically.

My projects further reflect my capabilities and interests. For instance, I developed "Where's My Exam?" and "WAT Will I Do?"—two full-stack applications designed to assist students with exam schedules and academic planning. These projects involved utilizing Python, React, MySQL, and Flask, showcasing my proficiency in both backend and frontend development.

At Lumeto, I am particularly drawn to the opportunity to work on generative models, neural techniques, and transformers for 3D human model generation and motion. My familiarity with Python, C++, and tools such as Docker and Flask aligns well with the technical requirements of this role. Additionally, my hands-on experience with AI and ML during my internship at LHSC, where I utilized the OpenAI API to create an AutoGPT agent, positions me well to contribute to Lumeto's AI/ML team.

I am confident that my technical skills, coupled with my passion for enhancing healthcare through technology, make me a strong candidate for this internship. I am excited about the possibility of contributing to Lumeto's mission of reducing medical errors through immersive simulation training.

Thank you for considering my application. I look forward to the opportunity to discuss how my background, skills, and enthusiasms can align with Lumeto's goals. Please feel free to contact me at [f3omer@uwaterloo.ca](mailto:f3omer@uwaterloo.ca) or (226) 504-5966 to schedule an interview.

Sincerely,

Fahmi Omer