

Dear Hiring Team,

I am writing to express my strong interest in this position. As a second-year Computer Science student at the University of Waterloo with a 96% cumulative average and a background in competitive mathematics (AIME Qualifier), I am looking for a challenging engineering environment where I can contribute to scalable, high-performance systems.

My technical experience bridges the gap between theoretical math and practical software engineering. During my recent role as an AI Engineering Consultant at Story City, I architected serverless microservices using Microsoft Azure and the Google Maps API. I successfully engineered a graph traversal algorithm that reduced storyboard creation time by 40%, directly impacting the product's efficiency and user experience.

Beyond standard coursework, I am passionate about understanding systems from first principles. Recently, rather than relying on high-level ML libraries, I built a neural network entirely from scratch using Python and NumPy. I manually implemented backpropagation and matrix calculus to achieve 97% accuracy on digit recognition. This project reflects my approach to engineering: I don't just use tools; I strive to master the underlying logic to build more optimized and reliable software.

I have admired [Company Name]'s work in [mention one specific thing the company does, e.g., cloud infrastructure / fintech / consumer apps], and I am eager to apply my skills in [mention relevant skill, e.g., C++, Python, or Full Stack Dev] to help your team solve complex problems. Thank you for your time and consideration.

Sincerely,

Justin Nitoi
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