Justin Nitoi

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Dear Hiring Manager,

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.

Specifically, my experience includes:

- **Cloud-Native Development and Cost Optimization:** During my time at Story City, I **architected 3 AI microservices** and migrated infrastructure to **AWS Lambda**. This initiative **reduced projected cloud costs by 50%** and optimized route prediction logic, demonstrating my ability to build resilient, cost-effective solutions.
- **AI and GenAI Implementation:** I have deep experience with PyTorch and Transformer architectures. I recently engineered a classification model that achieved **99.2% validation accuracy** and built a neural network from scratch (using only NumPy and Calculus) to demonstrate a mastery of the mathematical foundations behind modern AI tools.
- **Cross-Functional Communication:** Whether presenting technical feasibility reports to stakeholders or mentoring university students in Linear Algebra, I thrive in environments that require translating complex technical concepts into actionable insights for diverse audiences.

I am confident that my ability to deep dive into complex problems and communicate clearly makes me a strong addition to your team.

Thank you for your time and consideration.

Sincerely,

Justin Nitoi