Justin Nitoi

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EDUCATION

University of Waterloo, Ontario *Sep 2024 - Present*

Bachelors of Computer Science

- Average of **96%** in Math and Computer Science courses.
- Recipient of the President's Scholarship of Distinction.
- Active Member: Chess club, Poker club, Stocks club.

EXPERIENCE

AI Researcher *Remote*

Story City *Jun 2025 - Aug 2025*

- Collaborated with a team to identify opportunities for AI to enhance Story City's location-based storytelling platform.
- Leveraged Microsoft Azure tools and cloud computing concepts to propose solutions for improving product scalability and user engagement.
- Presented actionable AI recommendations and implementation details to stakeholders, translating technical research into clear insights.

Assistant Teacher *Toronto*

Spirit of Math Schools at Don Mills *Sep 2022 - Jun 2024*

- Coached struggling students, boosting class graduation rates and improving student confidence.
- Created a seamless learning environment through efficient organization of classroom activities.

PROJECTS

NameNet | Python *Jun 2025 - Aug 2025*

- Developed and compared multiple **ML architectures** for **classifying names** by gender using PyTorch.
- Trained models on two name datasets (**1.5k** and **40k** samples) and analyzed model performance across varying data sizes.
- Identified and corrected label inconsistencies in large dataset, significantly improving model accuracy to **99%+** on training data.
- Integrated the trained models in **WebMessenger** to assist with user account creation.

WebMessenger | Python, Javascript, SQL *Apr 2025 - May 2025*

- Developed a **private messaging web application** using Python flask and SQL for back-end and javascript, HTML for front-end.
- Used SQLite for the website database, designed SQL queries to update user info and messages. Developed an interface for the database to abstract the inner workings.

Neural Network for Digit Recognition | Python *Jan 2025 - Feb 2025*

- Developed and trained a neural network for **classifying handwritten digits**.
- Implemented forward propagation, backpropagation, and gradient descent to train the model on the MNIST dataset (28x28 pixel images of handwritten digits).
- Achieved over **97%** accuracy in recognizing handwritten digits without ML libraries.

SKILLS

Programming Languages: Python (PyTorch, Numpy, Pandas), C++, JavaScript, HTML, SQL

Soft Skills: Communication, Teamwork

Certifications: Azure Fundamentals, Azure AI Fundamentals