

# Carter Conboy

[carterconboy@uvic.ca](mailto:carterconboy@uvic.ca) | [LinkedIn](#) | [Github](#) | [Portfolio](#)

## Skills

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**Python:** Experienced in cleaning, transforming and analysing real-world datasets, and in implementing and applying foundational ML algorithms (PySpark, NumPy, Pandas, PyTorch, scikit-learn, SQL).

**Machine Learning and Statistical Analysis:** Proficient in model evaluation, hyperparameter tuning, and hypothesis testing, with expertise in classification, regression, and clustering techniques.

## Education

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<b>MEng Applied Data Science</b> <u>University of Victoria</u>	<b>GPA: 8.73/9.00</b>	<b>09/2024 – Present</b> Victoria BC
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<b>BASc Computer Engineering</b> <u>Queen's University</u>	<b>First Class Honours</b>	<b>09/2019 – 04/2024</b> Kingston ON
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## Projects

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<b>Marine Mammal Vocalization Classifier</b>	<b>01/2024 – 05/2024</b>
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- Achieved a highly performant solution for 12-class classification of Marine Mammal Vocalizations with a convolutional neural network (F1 Score: 0.81).
- Improved accuracy by 5% via hybrid signal processing and computer vision techniques for feature extraction.
- Produced a comprehensive dataset through development of parallelized data collection and transformation pipeline in Python.

<b>DNA Function Predictor</b>	<b>09/2024 – 12/2024</b>
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- Upgraded a hybrid neural network for the prediction of non-coding DNA function, eliminating 3 deprecated dependencies and reducing required training memory by 94%.

## Work Experience

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<b>IT Developer Internship</b> <u>Queen's University IT Services</u>	<b>04/2023 – 08/2024</b> Kingston ON (Hybrid)
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- Enabled single administrator management of MFA tokens for a 3k+ user base by developing an extensive API interface in PowerShell.
- Produced automated scripts to optimize several data collection and identity management processes previously requiring multiple administrators/platforms.

<b>Cyber Security Developer Internship</b> <u>DND Information Management Engineering</u>	<b>04/2021 – 01/2022</b> Ottawa ON (Remote)
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- Modernized a cyber-capability assessment application by introducing cross-platform operation and a responsive interface.
- Realized full-stack migration of a large .NET web application through redesign and implementation of relational data model.