

# Owen Chambers

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## EDUCATION

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### University of Waterloo

Waterloo, Ontario, Canada

MMath in Computer Science - 3.7/4

2021–2023

- Thesis: User-specific explanations of AI systems attuned to psychological profiles: a user study.

### Brandon University

Brandon, Manitoba, Canada

Honors B.Sc Computer Science - 3.83/4.3

2016–2021

## EXPERIENCE

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### Machine Learning Contractor

Micro1.AI

Mar 2024–Present

- Collaborating with a leading tech firm to provide specialized training for an advanced Language Model (LLM) in software engineering methodologies.
- Utilizing Python expertise to guide LLM solutions, ensuring project alignment with industry standards.

### Software Developer Intern

Technology Solve

Oct 2020–Jan 2021

- Developed an inventory tracking app using **Microsoft Power Apps**.
- Updated websites and **increased SEO** for 2 businesses with **100+** employees.

### Software Developer in Test

Heartland Software Solutions

Feb 2019–July 2019

- Meticulously followed instructions to re-create and identify bugs across diverse operating systems.
- Spearheaded communication across time zones to ensure efficient task completion as scheduled.

## PROJECTS

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### User-specific Explanations of AI Systems

University of Waterloo Thesis

- **Developed a predictive AI model** for the acceptance/rejection of **AI explanations**, yielding **statistically significant** results over the performance benchmarks set by current best practices.
- Applied **Linear Regression, Logistic Regression, and Random Forest AI models** to gain further insight, which predicted whether a participant would accept a given explanation with **95% accuracy**.

### Predicting Off-target CRISPR Mutations

Deep-Learning for Biotechnology Course Project

- Developed a **Siamese Neural Network** to predict off-target CRISPR mutations achieving **98% accuracy**.
- Clearly illustrated that investigating the gRNA and DNA strands separately is a valid method of prediction

## SKILLS

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- **Language Familiarity:** Python, Java, JavaScript, SQL, HTML, CSS, Scripting
- **Technologies:** Scikit-learn, PyTorch, Tensorflow, Keras, Numpy, Flask, Pandas, Git