Owen Chambers

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EDUCATION

University of Waterloo — Waterloo, Ontario, Canada
MMath in Computer Science — 2021–2023

- GPA: 3.7/4
- Thesis: User-specific explanations of AI systems attuned to psychological profiles: a user study.

Brandon University — Brandon, Manitoba, Canada
Honors B.Sc Computer Science — 2016–2021

- GPA: 3.83/4.3
- Relevant Courses: Artificial Intelligence, Design/Analysis of Algorithms, Theory of Computation.

PROJECTS

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 in a user study.
- 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

EXPERIENCE

Software Developer Intern
Technology Solve — Oct 2020–Jan 2021

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

Software Developer in Test
Heartland Software Solutions — Feb 2019–July 2019

- Meticulously followed instructions to re-create and identify bugs in across operating systems.
- Spearheaded communication across time zones to ensure tasks completed as scheduled.

ENACTUS WebFace Project Manager
Brandon University Club — Oct 2017–April 2019

- Successfully coordinated a team of students to build websites and increase SEO for small businesses.
- Placed runner up in ENACTUS' regional TD Entrepreneurship Challenge in 2017 and 2018.

SKILLS

- **Language Familiarity:** Python, Java, SQL, HTML, Scripting
- **Technologies:** Scikit-learn, PyTorch, Tensorflow, Keras, Git, Pandas, NumPy