

Angus Read

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EDUCATION

Western Washington University – MS Computer Science Sep 2022 – Dec 2023

- Area of research is Machine Learning, specifically tensor reconstruction.
- Awarded a full-time graduate TA-ship in Fall, Spring 2022/2023.

Western Washington University – BS Computer Science, Minor Mathematics Sep 2018 – June 2022

- Member of Computer Science Pre-Master's program which entails taking several graduate-level courses.
- TA-ship during my senior year
- Elective coursework is centered around Data Visualization and Mathematics.

Snohomish High School Sep 2014 – June 2018

- Played varsity soccer in 11th and 12th grade, captain of JV team in 10th grade.
- Studied 3 years of German and still maintain an elementary level of fluency.

RELEVANT PROJECTS

Brain Viewer (Python) Sep 2021 – May 2022

- Developed in a group as my senior project using GitHub for source control: [Link](#).
- Interactive UI that visualizes connectome projections between some source point and all other points in the brains of mice using a method of estimation based on experimental data (kernel regression).
- Resulted in a research paper submitted to IEEE VIS 2022: [Link](#).

Complex Word Classifier (Python) Jan 2022

- NLP project that tests a variety of machine learning models on a set of input words and features to classify words as complex or simple, and find which features give an indication of complexity.

N-Gram Language Modeling (Python) Feb 2022

- NLP project that builds, smooths, and evaluates perplexity of word and character level n-grams and uses them to probabilistically generate sentences.

Various ML Projects Mar 2022- June 2022

- Derived and implemented models for Lasso, Gradient Descent, and Stochastic Gradient Descent Algorithms.
- Experimented with parameter tuning, data augmentation (linear feature matrices to polynomial/nonlinear, feature scaling/normalization).

SKILLS

C	Java	Python	Linux	C#	Sklearn	MySQL	Git
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WORK EXPERIENCE

Western Washington University Mar 2022 - Present

Undergraduate Teachers Assistant/ Grader

Bellingham, WA

- Course: Analysis of Algorithms/Data Structures II (CSCI 405)
 - Required to grade assignments and exams for two 30-seat class sections.
- Course: Dynamic Web Pages (CSCI 202)
 - Required to grade assignments for an 8-seat summer class-section

Exa Data and Mapping

Mar 2022

Freelance Programming Support

Bellingham, WA

- Developed scripts in Python to convert data tables to formats that could be readily imported to other software for summary, graphical display, and statistical analysis.