

# Angus Read

angusread19@gmail.com ❖ Bellingham, WA ❖ LinkedIn ❖ Website

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## EDUCATION

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### 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 and half-time in Winter 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.
- Awarded an undergraduate 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 11<sup>th</sup> and 12<sup>th</sup> grade, captain of JV team in 10<sup>th</sup> grade.
- Studied 3 years of German and still maintain an elementary level of fluency.

## RELEVANT PROJECTS

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### 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

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C	Java	Python	Linux	C#	Julia	MySQL	Git
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## WORK EXPERIENCE

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### Western Washington University Mar 2022 – Aug 2022

*Teachers Assistant/ Grader* *Bellingham, WA*

- Courses:
  - Dynamic Web Pages (CSCI 202)
  - Data Structures (CSCI 241)
  - Database Systems (CSCI 330)
  - Analysis of Algorithms/Data Structures I & II (CSCI 305/405)

### 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.