Julian Worn

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# Education

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| **Bachelor of Science in Computer Science,****Minor in Business Administration**Seattle UniversityMajor GPA: **4.0**, Overall GPA: **3.95**Expected Graduation: 12/2024 | **Honors:** - Presidents List 2021, 2022, 2023**-** Academic All WAC 2021, 2022, 2023**-**College Sports Communicator Academic All-District |

# Skills

**Programming Languages:** C++, Python, C#, Java, SQL, HTML5/CSS, JavaScript, F#

**Other:** Basics in Valgrind and Linux, Microsoft Office, Basics in Python Machine Learning Library “ScikitLearn”

**Languages:** English, German

# Experiences

**Machine Learning MRI Classification (Personal Project):** [*GitHub*](http://github.com/JuliGH6/Brain-Tumor-Classification)(08/2023 – current)

- Created a Machine Learning Model to classify Kaggle Dataset of Brain MRIs into 4 different categories of tumors.
- Trained the model with 6000 MRIs and Tested with 1000 MRIs

- The pipeline consists of preprocessing MRIs into arrays of grayscale values, using the SVM classifier as estimator, increasing precision through parameter tuning with grid-search and cross-validation

- Utilized Anaconda, Scikit-Learn, NumPy and run on Azure Cloud Services

**Scheduling Software (Personal Project):**[*GitHub*](http://github.com/JuliGH6/Scheduling-System)(07/2023 – current)

- Created software that builds a schedule of lessons for my (Tennis) coach and writes the schedule into a CSV file.

- Implemented priority queue to improve time complexity from O($n^{2}$) to O($n$) during schedule building.

- Applied Makefile compilation and object-oriented programming principles and added deep copy/move semantics, overloaded operators

- Used smart and raw pointers for efficiency/safety

- Utilize C++, VS Code.

**Internship/Capstone Project,** *Amazon/Seattle University*(09/2023 – current)

- Finding trends and flagging Customer Feedback from Reddit that requires Amazons immediate attention

- Utilized the Reddit API to build a crawler

- Build NoSQL and SQL databases that adhere to security and privacy guidelines

- Analyzed and classified data with open-source NLP models

- Created a UI to display the results

- Produced deliverables and applied agile development practices

**Grader,** *Seattle University*(09/2023 – current)

- Review and grade student assignments and projects in the course titled “Data Structures and Algorithms” in C++.

- Find bugs and offer constructive feedback for improvement.

**Research Assistant, MRI Classification via Machine Learning** (06/2023 – current)

- Extract information from primary literature pertaining the topic of brain tumor classification via Machine learning.

- Used the gained knowledge to develop my own MRI classification program.

# Extracurricular Involvements

**Division 1 Tennis Player,** *Seattle University*(01/2021 – current)

- A workload of 20 hours per week and regular multiday travels teaching me teamwork, leadership, and dedication.
**Tennis Coach,** *Eintracht Frankfurt*(04/2018 – current)

**High School Tutor,** *Self-Employed*(08/2017 – 01/2021)

**Albers Investment Club,** *Seattle University*(01/2023 - 06/2023)