Austin Okray

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EDUCATION

University at Buffalo   Buffalo, NY
Master of Science in Data Science   *Aug. 2020 – Dec. 2021*

University of Wyoming   Laramie, WY
Bachelor of Science in Computer Science, Minors in Math and Stats   *Aug. 2014 – May 2020*

WORK EXPERIENCE

Teton Simulation Software   Laramie, WY
Machine Learning/Optimization and Software Development Intern   *October 2019 – August 2020*
- Utilizing and developing machine learning methods and optimization methods with Python related to optimization of 3D printed parts
- Maintaining and developing software in Python critical to the infrastructure of the optimization

University of Wyoming Computer Science Department   Laramie, WY
Undergraduate Research Assistant   *May 2018 – Jan. 2020*
- Researching social bias reduction in machine learning models, topics include: feature selection and kernel methods for bias reduction
- Attended conferences, presented original works, other academic papers, progress, and newly researched algorithms
- Implemented algorithms from academic papers and textbooks

Teaching Assistant   *Sep. 2019 – Dec. 2019*
- Worked with Dr. Chao Lan in COSC4550: Introduction to Artificial Intelligence to grade student work, give tutorial lectures, and answer questions on homework and concepts

University of Wyoming Information Technology   Laramie, WY
Database Developer   *May 2017 – Sep. 2019*
- Utilized SQL, Groovy, Java, Javascript, HTML, REST APIs, and PL/SQL to implement and maintain various projects
- Maintained healthy code structure with Git at both organization level and small team settings
- Cooperated frequently with clients to determine and fix problems, and to test solutions
- Worked extensively with third-party (Ellucian) software, documentation, and support tickets to resolve internal University of Wyoming problems

PUBLICATIONS

- A. Okray, H. Hu, C. Lan. Fair Kernel Regression via Fair Feature Embedding in Kernel Space, International Conference on Tools in Artificial Intelligence, 2019.

- Z. Wang, S. Muknahallipatna, M. Fan, A. Okray, C. Lan. Music Classification using an Improved CRNN with Multi-Directional Spatial Dependencies in Both Time and Frequency Dimensions, International Joint Conference on Neural Networks 2019.

PROJECTS

Fairness for All | *Python, Flask, Javascript, PostgreSQL*   Sep. 2019 – Present
- Developed a full-stack web application using Flask and Postgres as the back end
- Allows users to learn about fair machine learning interactively
- Users choose features to include in a model's training, the model trains, then the results are stored and displayed to the user. Stored results in the database can be accessed for fast reference later.

TECHNICAL SKILLS

Languages (in order of experience): Python, SQL, R, JavaScript, HTML/CSS, C/C++, Java
Libraries: NumPy, Matplotlib, scikit-learn