

EDUCATION

PhD in Computer Science | Washington University in St. Louis, St. Louis, MO | 2018-Present

Major: Computer Science

Bachelor of Arts | Westminster College, Fulton, MO | Graduated: December 2015

Major: Computer Science

Honors: Magna Cum Laude

FIELD OF INTERESTS

Machine Learning, Clinical Predictive Modeling, Natural Language Processing

RELEVANT COURSEWORK

Washington University:

Introduction to Machine Learning

Advanced Algorithms

Data Visualization

Introduction to Artificial Intelligence

Computer Systems Architecture

Advanced Machine Learning

Bayesian Methods in Machine Learning

Westminster College:

Data Science

Data Structures

Linear Algebra

System Analysis and Design

Object-Oriented Programming

Calculus III

Database Management Systems

Programming Logic and Design

System and Software Engineering Studio

Probability and Statistics

PROGRAMMING SKILLS

Advanced Skills: Python, JAVA, C++, MATLAB, STRUTS, JAVASCRIPT, SQL, COBOL

Intermediate Skills: Apache ANT, Visual Basic, R

Libraries: Pytorch, Scikit-Learn

WORKING PAPER

Kriti. Bhattarai, Inez.Oh, Zachary Abrams, Aditi Gupta, Albert M.Lai, Philip R.O. Payne. "Towards extracting event and timeline from unstructured text for Small Cell Lung Cancer patients." Target Conference: ACL Clinical NLP, 2023.

- The goal of the project is information extraction for events and timeline for small cell lung cancer diagnosis and treatment using rule-based and neural network-based approaches.

Kriti. Bhattarai, Mackenzie. Hofford, Sean. C.Yu, Seunghwan Kim, Aditi Gupta, Marin H. Kollef, Albert M.Lai, Philip R.O. Payne, Andrew P. Michelson. "Predictive performance of the SOFA and 4C scores in critically ill COVID-19 patients compared to an automated extended feature model." Arxiv, 2023.

- The goal of the project is to validate prognostic scores including SOFA and 4C score for 30-day mortality prediction in critically ill COVID-19 patients and identify the clinical features with the most prognostic performance.

WORK EXPERIENCE

Programmer/Analyst | Dillard's Inc. | January 2016- August 2018

- Developing and maintaining application programs written in JAVA and GROOVY on an AIX/WebSphere platform, as well as application programs written in COBOL on a z/OS(OS/390) platform
- Ensuring that all systems and 3rd party integrations are available and functioning properly.
- Responsible for researching problems, making code changes in a timely and accurate manner, testing the changes, implementing the changes, and then following up to ensure the desired results were achieved.
- Working closely and communicating with user services to develop the best possible system for the end-user.

Intern | Information Technology Services Division| State of Missouri | February 2015 – December 2015

- Creating and documenting test scripts using SQL
- Creating ANT Script for build automation for a web-based JAVA Application

- Performing basic quality assurance application testing
- Creating account access and performing regression testing on an internal application

EXTRA ACTIVITIES

- Conference Reviewer | AMIA Informatics Summit | Year: 2020, 2021, 2022
- Washington University Teaching | Introduction to Data Science | Year: 2021
- Westminster College Senior Seminar Mentor | Year: 2015
- Westminster College Junior Class Vice-President for Student Government Association | Year: 2014
- Westminster College Habitat for Humanity Chapter President | Year: 2014