LINDSEY KVARFORDT

kvarfordt.lindsey@gmail.com | (208)-932-3004 | github.com/kvarforl

EDUCATION

Oregon State University June 2021
Bachelors of Computer Science, Mathematics Minor GPA: 3.92
Relevant Coursework: Machine Learning and Data Mining, Parallel Programming, Linear Algebra

WORK EXPERIENCE

Ramsey Laboratory Python bash AWS June 2020 - Present
Special Project Assistant
- Deployed monthly builds of a standardized biomedical knowledge graph to two downstream reasoning tools by maintaining and enhancing ETL scripts of 55 separate knowledge sources and ontologies
- Maintained compliance with the Biolink Model by attending and contributing to weekly meetings with the broader National Center for Advancing Translational Sciences Translator teams

HP Inc. C++ June 2019-September 2019
Software Engineering Intern
- Developed an integrated utility for Remote Graphics Software (RGS) that calculates live user network conditions to be used to improve automatic experience adjustments for RGS performance
- Utilized the Internet Communication Engine (ICE) and multithreading to efficiently calculate network conditions from both the client and server sides of RGS

Oregon State Center for Applied Systems and Software Python April 2018 - December 2019
Quality Assurance Test Engineer/ Student Lab Manager
- Co-authored and maintained an automation testing framework for Ventacity Systems IoT
- Designed, automated, and executed around 200 blackbox test cases to identify software bugs
- Led a team of 3 other student developers in designing and automating test cases using the framework
- Conducted interviews and reviewed candidates to determine best team fit

LANGUAGES & SKILLS

Python C++ C bash git linux pandas NumPy SQL AWS

PROJECTS & LEADERSHIP

Yelp Review Classifier Python NumPy pandas
- Implemented an NLP classifier using a binomial naive bayes bag of words to classify the sentiment of Yelp reviews as positive or negative with a testing accuracy of 79%.

Modular VR System bash
- Demonstrated leadership skills through initiating and executing the construction of a portable virtual reality environment known as an IQ station for use in local classrooms and community events
- Secured $15.000 in funding and professional support from Idaho National Laboratory

MNIST Neural Network Python PyTorch
- Created a fully connected simple neural network model to classify MNIST digits 0 through 9 with a 91% testing accuracy.

Linux Install Festival
- Hosted a school event each term to help around 60 students install various Linux distributions on their personal computers in the form of full install, dual booting, or virtual machine access
- Promoted the use of FOSS software as Vice President of Linux User Group 2018-2020

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Biomedical Computer Science Intern

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Relevant Coursework: Machine Learning, Database Management Systems, Information Visualization

WORK EXPERIENCE

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WORK EXPERIENCE

Ramsey Laboratory Python bash AWS June 2020 - Present
Biomedical Computer Science Intern

- Contributed to development and maintenance of ETL scripts for a biomedical knowledge graph representation of 55 data sources and ontologies
- Implemented modular functionality for filtering drug results by FDA approval status
- Utilized scripted cypher queries and Python to demonstrate the capability of a biomedical knowledge graph in identifying drugs to treat SARS-CoV-2

HP Inc. C++ June 2019-September 2019
Software Engineering Intern

- Developed an integrated utility for Remote Graphics Software (RGS) that calculates live user network conditions to be used to improve automatic experience adjustments for RGS performance
- Gained experience with multithreading, networking, and working with a client-server model
- Collaborated with full-time software engineers using Agile process to delegate and distribute tasks

Oregon State Center for Applied Systems and Software Python April 2018 - December 2019
Quality Assurance Test Engineer/ Student Lab Manager

- Co-authored and maintained an automation testing framework for Ventacity Systems IoT thermostats
- Designed, automated, and executed blackbox test cases to identify software bugs
- Led a team of 3 other student developers
- Conducted interviews and reviewed candidates to determine best team fit

LANGUAGES & SKILLS

Python C++ C bash git linux pandas NumPy SQL AWS

PROJECTS & LEADERSHIP

Yelp Review Classifier Python

- Implemented a Binomial Naive Bayes classifier to classify the sentiment of Yelp reviews as positive or negative
- Utilized bag of words NLP technique implemented from scratch for better understanding

Modular VR System bash

- Demonstrated leadership skills through initiating and executing the construction of a portable virtual reality environment known as an IQ station for use in local classrooms and community events
- Secured funding and professional support from Idaho National Laboratory to actualize an idea

Activity Identifier Python

- Performed k-means clustering and dimension reduction (PCA) algorithms on accelerometer and gyros data from a Samsung Galaxy S3 to identify which activity the user was participating in (standing, running, sitting, etc)

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