Shuai "Sharon" Yang

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EDUCATION

Boise State University, Department of Computer Science   Boise, ID

Bachelor of Science - Computer Science (Expected)

GPA: 4.00 / 4.00

Programming: Intermediate Problem Solving in Java; Intermediate programming in C++; Intro to Python Programming; System Programming in C, Assembly Languages

Algorithms: Data Structure and Algorithms; Design and Analysis of Algorithms

System: Navigate Linux System

Machine Learning: Foundations of Data Science using Jupyter Notebook; Intro to Information Retrieval; Intro to Artificial Intelligence

Software Engineering: Agile Development; Object-Oriented Analysis and Design; Version Control(Github)

Computer Engineering: Digital System; Microprocessors

Computing: Intro to Theory of Computation

PROJECTS

Search Engine

This is a final project for the Data Structure course. I built a search engine to allow users to search via keyword for entries using the inverted index technique for information retrieval. This project was developed in Java.

myps command

This is a final project for the System Programming course. I wrote a simplified version of the ps command found on Linux-based(Ubuntu) systems. The myps tool will extract 7 data points from the stat file and display them to the user by implementing specified command-line options. This project was developed in C.

RESEARCH

Undergraduate Research Assistant   Boise, ID

Boise State University, Computer Science Department

Nominated by Dr. Sole Pera at PIReT (People and Information Research Team) and selected by Higher Education Research Council (HERC) Fellowship to conduct research about profiling hate speech spreaders on Twitter using new features.   Aug 2021-Present

Wrote code to add new features to an open-source C++ library called IEGenLib, a computation API in the polyhedral compilation framework, to support the compiler project for ADaPT data flow optimization lab. And contributed to the paper "Techniques for Managing Polyhedral Dataflow Graphs" accepted by the LCPC 2021 workshop.   May 2021-Aug 2021