

# Shuai “Sharon” Yang

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## EDUCATION

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**Boise State University, Department of Computer Science**

Boise, ID

**Bachelor of Science - Computer Science (Expected May 2023)**

**GPA: 4.0**

**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

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### [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.

### [mysps 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 mysps 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

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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