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github | linkedin

SKILLS

PROGRAMMING LANGUAGES / ENVIRONMENTS	***Experienced:*** Python	C	Java	Bash	GNU/Linux ***Familiar:*** Javascript
SOFTWARE DEVELOPMENT	GIT	CLI	Agile Methodology
FRAMEWORKS & LIBRARIES	wxPython	PyTorch	Tensorflow	SQLite

PROJECTS - SEE ON GITHUB

HALMA BOARD GUI + AI ALGORITHM

ACCESS ON REQUEST TO COMPLY WITH ACADEMIC INTEGRITY POLICY

- Built a GUI using the framework wxPython
- Developed a min/max AI algorithm so that the user can play a game against it
- Won the class competition against other AI Halma projects

CAPSTONE WEBSITE

SEE WEBSITE: HERE

- Built a minimal website through org mode in EMACS and exported to html
- Contains the development process and scheduling used in our project
- Has a mobile-friendly and usable interface

OS SIMULATOR

ACCESS ON REQUEST TO COMPLY WITH ACADEMIC INTEGRITY POLICY

- Built a c program that takes in a list of op codes and simulates concurrent execution
- The I/O operations are completed with threading
- can be configured to 4 different scheduling types: FCFS-N, SJF-N, STF-P, FCFS-P
- Received a score over 100 for all four deliverables due to completing extra credit

CONFIGURABLE ARCH LINUX SYSTEM

PUBLICLY AVAILABLE ON GITHUB

- Configured a minimal arch linux system that is freely installable by anyone
- Includes an emacs configuration and configs for all my used software
- Includes a completely customized tiling window manager and a dozen useful bash scripts I use frequently

EDUCATION

NORTHERN ARIZONA UNIVERSITY GPA - 3.52

Expected Graduate Date: May 2022

B.S IN COMPUTER SCIENCE WITH MINOR IN MATH

- Qualified for Honors Program (2018-2019)
- Made Dean's List for 4 semesters
- Performed well enough in CS classes to TA for 2 professors

Experience

TA for Python Lab
2019-2020 / NAU

Grader and Lecturer

- Demonstrated several important problem solving techniques to 2 classes of students
- Assisted said students with beginning python programming
- Reviewed and graded dozens of python programming projects

TA for Operating Systems Class
2021-Now / NAU

Grader

- Would grade about 30 students' quizzes and exams on Operating Systems Concepts

NAU Undergraduate Symposium
2019 / NAU

Researcher and Presenter

- Researched anthropological topics on a collaborative 30 minute presentation
- Presented ideas to a large scale audience with judges
- Analyzed large fossil data in a way that everyone can understand

Qualifying Skills

My experience with Tensorflow and PyTorch was developed in my artificial intelligence class. We developed a deep-learning python project built to detect types of MNIST clothes. The wxPython experience comes from developing a halma GUI board entirely myself. (see in github)
I am also passionate about GNU/linux systems and love learning how to use them. I have spent a lot of time configuring my laptop workspace to work as efficiently with as little resources as possible. I use crontabs, bash scripts and minimal desktops to create a great workspace. I also took the time to configure an emacs environment.