Nathan Taylor

pecan-pine.github.io
pecan.pine@gmail.com

EDUCATION

Oregon State University–Corvallis, Oregon / Online   Fall 2020 - Spring 2022
B.S. Computer Science (in progress)

University of Oregon–Eugene, Oregon   Fall 2017 - Spring 2019
M.S. Mathematics

SKILLS

JavaScript I designed and built several JavaScript-based websites (linked on my homepage). My favorite to build was a command-line themed page where you type in commands to navigate the site.

Python Skilled at Python programming, and solving problems using Python:

· Contributed to the SymPy project (a computer algebra system written in Python) by developing a test for one of their differential equation solvers. The test ensured that a certain error was resolved.
· I made a Flask app that organizes photos into different categories and stores that data in a SQLite database.

Shell Proficient in shell scripting. Here are some examples of Bash scripts I have recently written:

· A script which backs up the home directory, gives the copied directory a name including the current time, then deletes the oldest previously backed up directory.
· A program which compares files with the same name in two different directories, and lets the user update one of the copies if desired.

SQL Familiar with the SQL database language:

· Created SQLite databases to store and query user data in Flask applications.
· Developed functions utilizing MySQL and Python to query and graph data from the Social Security Administration's baby names database.

WORK EXPERIENCE

Tutor.com   August 2020 - Present
Tutor

· Tutored high school and college students in Calculus and Python.

University of Oregon   September 2017-August 2019
Graduate Employee

· Taught undergraduate Mathematics courses as the primary instructor. Planned the structure of the course, determined the order in which content was covered, wrote exams, and graded exams. Led a small team of graduate-students in a study group that produced 50 pages of solutions to abstract algebra problems.