Nathan Taylor

https://pecan-pine.github.io

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EDUCATION

University of Oregon–Eugene, Oregon   *September 2017 - June 2019*
M.S. Mathematics

University of Montana–Missoula, Montana   *August 2014-May 2017*
M.A. Mathematics

University of California–Santa Cruz, California   *September 2007-March 2011*
B.A. Mathematics

SKILLS

Python

· Skilled at Python programming, and solving problems using Python.

  · Contributed to the sympy project (a computer algebra system written in Python) by writing a test for one of their differential equation solvers.
  · I made a Flask app that helps organize photos into different categories using a SQLite database.

Bash

· Proficient in Bash 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.
  · Scripts to speed up installing Arch linux. The scripts walk the user through the installation process, asking questions when it needs input. Each line in the script output is a different color.
  · A program which displays a simple menu to help transfer themes from one Linux distribution to another.

SQL

· Familiar with the SQL database language:

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

JavaScript

· I've designed and built several JavaScript-based websites:

  · A space themed page with a planet orbiting a sun.
  · A command-line themed page where you type in commands to navigate the site.
  · A main page (pecan-pine.github.io) which has the same information as the above sites, with links to each of them.

Other

· Other tools I'm familiar with: Git, LaTeX, Linux (installing and configuring), Flask web framework, HTML, CSS, C++, C#, and the Unity game engine.

RELEVANT COURSES

Harvard University/edX–Online   *Completed April, 2020*
· CS50: Introduction to Computer Science

Coursera–Online Courses   *Completed April/June, 2020*
· Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
· Databases and SQL for Data Science
· Python for Data Science and AI
· Data Science Methodology
· What is Data Science?

HackerRank Skill Certificates   *Completed May, 2020*
· Problem Solving (Basic)
· Problem Solving (Intermediate)
· Python (Basic)

Lane Community College   *Completed August 2019*
· Introduction to Computer Networks (CS 179)

RELEVANT WORK EXPERIENCE

University of Oregon   September 2017-August 2019
Graduate Employee

· Courses Taught:

  · Math 111 (College Algebra): Fall 2017, Winter 2018.
  · Math 112 (Trigonometry): Spring 2018, Fall 2018.
  · Math 107 (University Math 3): Summer 2018.
  · Math 241 (Business Calculus): Spring 2019.
  · Math 106 (University Math 2): Summer 2019.

· Courses as a Teaching Assistant:

  · Math 241 (Business Calculus): Winter 2019.

University of Montana   August 2015-May 2017
Teaching Assistant

· Courses Taught:

  · Math 121 (College Algebra): Summer 2016, Spring 2017.

· Courses as a Teaching Assistant:

  · Math 115 (Probability and Linear Math): Fall 2015, Spring 2016.
  · Math 162 (Applied Calculus): Fall 2016.

PERSONAL TRAITS

Highly motivated and eager to learn new things and to solve problems.

Adaptable to different situations and responsibilities.

Hard-working, perseverant, and dependable.