Monthon Paul

Portfolio: www.monthonpaul.dev
Github: github.com/Monthon-Paul

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EDUCATION

University of Utah College of Engineering — Salt Lake City Utah, United States
Bachelor of Science - Computer Engineer; GPA: 3.543 — *August 2020 - present*

Courses: *Object-Oriented Programming, Data Structures & Algorithms, Circuits & Systems II, Circuits & Systems I, Discrete Structures, Computer Organization*

SKILLS SUMMARY

- **Languages:**   Familiar in Python, JavaScript, C#, JAVA, MATLAB, LATEX, HTML & CSS
- **Libraries/Framework:**   Familiar with Anaconda Python, discord.py, Jupyter, pygames
- **Platforms:**   MacOS, Web, Windows, Arduino
- **Soft Skills:**   Writing, Typing, Communication, Eager Learner

EXPERIENCE

Kumon North America, Inc — On-site
Instructor / Grader (Part-time) — *June 2020 - Present*

- **Instructor**: applied knowledge of K-12 learning for Math & Reading. Math expanding through the bare minimum of AP Calculus AB. Reading expanding with literature composition & Reading proficiency
- **Grader**: enter data results for students and keep track of their progress & planned a schedule for students

PROJECTS

Audio Filter Circuit - Arduino
June 2022 - July 2022

- **Design**: a Low-pass, High-pass Filter using the Arduino which inputs a wave audio with depending on the filter outputs a frequency change.
- **Tech**: Arduino, Analog Circuit, C-based programming

Custom Discord bot - interactions/ music player
June 2022 - July 2022

- **Design**: build a custom simple to use discord bot in which interacts with users & able to play music in a server
- **Tech**: Discord.py library, audio converter & player

Basic Fire Blinker Circuit
April 2021 - May 2021

- **Design**: a small circuit that detects a certain amount of heat which turns on alternating LEDs. In case a fire temperature is able to power voltages over logic gates in order to flash LEDs with an oscillator alternating the logic gates.
- **Tech**: Analog Circuits

Context free Grammar text Generator
November 2021 - December 2021

- **Design**: CS project: choosing the right data structure & algorithm in order to generated a random Grammar text. Optimizes & conduct timing code to analyze an efficient algorithm. Dealt writing the code with recursive call & iterative call for choosing the best.
- **Tech**: Java, data structures & file reader libraries

Hangman with C#
Jun 2022 - Aug 2022

- **Design**: a full-functioning game that is able to replicate the game of Hangman using C#
- **Tech**: C#

Website Portfolio
June 2022 - Present

- **Design**: My side project where I am able to present my portfolio, interest, background, & projects
- **Tech**: JavaScript, HTML & CSS

VOLUNTEER EXPERIENCE

University of Utah Health Hospital — Salt Lake City Utah, United States
volunteer at the University of Utah Hospital, where I help patients & employers. — *Jun 2017 - Aug 2017*