

Monthon Paul

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EDUCATION

University of Utah

Salt Lake City, Utah

College of Engineering: Bachelor of Science in Computer Engineering

August 2020 - expected 2024

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

EXPERIENCE

Instructor / Grader (Part-time)

June 2020 – Present

Kumon North America, Inc

Salt Lake City, UT

- 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
- enter data results for students and keep track of their progress & planned a schedule for students

PROJECTS

Audio Filter Circuit - Arduino | *Arduino, Analog Circuit, C-based programming*

June 2022 – July 2022

- a Low-pass or High-pass Filter which inputs a wave audio with depending on the filter outputs a frequency change.
- using the Arduino, able to change which Filter of input
- inputs are a microphone where outputs with speakers

Custom Discord bot - interactions/ music player | *Python, discord.py, git, FFmpeg*

June 2022 - July 2022

- build a custom simple to use discord bot in which interacts with users & able to play music in a server
- Personal project in order to used with my own discord community
- uses the discord.py libraries with FFmpeg for audio

Website Portfolio | *JavaScript, HTML & CSS, Github Pages*

June 2022 - September 2022

- My side project where I am able to present my portfolio, interest, background, & projects.
- More detailed information of describing on my personal interest & bio
- Was able to host it using GitHub pages with a custom URL.

Basic Fire Blinker Circuit | *Analog Circuits*

April 2021 - May 2021

- a small circuit that detects a certain amount of heat which turns on alternating LEDs.
- A hot enough temperature is able to power voltages over logic gates in order to flash LEDs with an oscillator alternating the logic gates.
- Uses the Analog discovery 2, LTspice for simulation, wrote an beginning IEEE paper.
- Parts: Resistors, Capacitors, Op-Amps, Thermistor, Logic Gates NAND, LEDs

Context free Grammar text Generator | *Java, data structures & file reader*

November 2021 - December 2021

- 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.

TECHNICAL SKILLS

Languages: C, Java, Python, JavaScript, HTML/CSS, MATLAB, LATEX, SQL, R

Frameworks: Familiar in MSUnit, JUnit, Jupyter, .NET, BigQuery, RStudio

Developer Tools: Git, MacOS, Web, Windows, Arduino, Spreadsheets, VS Code, Visual Studio, Eclipse

Libraries: Anaconda Python, NumPy, Matplotlib, discord.py,

CERTIFICATE

Google Data Analytic Professional Course

July 2022 - September 2022

Coursera & Google

Online

- Acquired critical skills in how to prepare, process, clean, analyze, and share data.
- Learn how to organize it into a presentable manner using options such as formulas, functions, and visualization methods.
- understanding the uses Spreadsheets, SQL, and R programming language.