

Monthon Paul

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EDUCATION

University of Utah

Salt Lake City, Utah

Bachelor of Science in Computer Engineering; GPA: 3.53

August 2020 - expected 2024

Courses: Object-Oriented Programming, Data Structures & Algorithms, Computer Systems, Software Practice I, Computer Organization, Digital System Design, Circuits & Systems I,II,III, Discrete Structures

EXPERIENCE

Learning Assistant Instructor

January 2023 – May 2023

Center for Science & Mathematics Education, University of Utah

Salt Lake City, UT

- Became a Learning Assistant for the Math department of University of Utah. Help students learn & assist in teaching MATH 1210 (Calculus I).
- Held Office hours for students. Instruct Lab classes for Students. Manage materials & scheduling with Professor's for the class.

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 - Analog Circuit | *Analog Circuit*

October 2022 – December 2022

- Input a Signal wave that goes in a low-pass filter, the signal will then amplified & go to a Buffer to output Sound
- Develop Power Supply with a Transformer & Full-bridge Rectifier for converting AC to DC to power the circuit
- Uses basic Semiconductor parts, test out amplifier with Op-Amps, BJT's, NMOSFET's
- Inputs are a microphone where it outputs into speakers

Custom Spreadsheet Application | *C#, git, .NET MAUI*

September 2022 - November 2022

- Applied .NET framework to a replicate of a simple functionality of a Spreadsheet program, able to perform calculations on numbers and formulas
- Have features including New, Open, Save & Save As. Special features include Screenshot & display elements
- Build with C# using .NET 6.0 framework, uses .NET MAUI for GUI, & JSON formatting for data

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.

Snake Multiplayer Game | *C#, git, .NET MAUI*

November 2022 - December 2022

- Applied .NET framework to a build a Snake multiplayer Game that allows users to connect to a Server to play with other users
- Utilize Network Programming by making both the Server-side and Client-side
- Build with C# using .NET 7.0 framework, uses .NET MAUI for GUI, & JSON for API sending request

TECHNICAL SKILLS

Languages: C#, C/C++, Java, Python, JavaScript, HTML/CSS, MATLAB, \LaTeX , Verilog, SQL, R

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

Developer Tools: Git, Github, MacOS, Web, Windows, Arduino, Spreadsheets, VS Code, Visual Studio, Eclipse, RStudio, PSpice, LTSpice

CERTIFICATE

Google Data Analytic Professional Course

July 2022 - September 2022

Coursera & Google

Online