

Taylor H. Payne

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EDUCATION

University of Kentucky, College of Engineering

Bachelor's Degree of Science in Computer Science

Lexington, KY

Expected May 2024

Cumulative GPA: 3.07

CODING PROJECTS

Cross-Stitch Maker - Javascript, Python

April 2023

- Won first place at Cat-Hacks 2023, this android based application takes any photo from the user's photo gallery and uses k-means clustering and the Google Cloud API to turn that photo into a cross-stitching pattern. You can then print the pattern off, send it to your friends through social media, or just save it to your phone
- My first experience using React-Native, collaborating with another programmer, working with android development, and my first Hackathon.

Lymphedema Image Processing Project (In development) - Python

January 2023

- A machine-learning model and application that helps doctors take more consistent measurements of patient's lymphedema growth over long periods of time.
- Started during a Machine-learning research class under Dr. Harrison of the University of Kentucky

Unity-Based Game - C#

June 2022

- Covers the bases for a plethora of systems that are a must-have when making a game such as a dialogue system with UI and choices, and a combat system with AI pathfinding equipped with both player and enemy health.
- Deals with nitty-gritty operations like managing scenes, dialogue, combat, shaders, and player movement
- Handles player Inputs using the Unity Input Actions System allowing for seamless modifications or appendages to the basic Input frameworks.

EXPERIENCE

Print and Marketing Associate

Lexington, KY

Staples

May 2023 - Present

- Worked with public clientele to fulfill a large range of product orders which helped me to be a versatile worker when it comes to customer demand.
- Shifted between positions based on store need. This allowed me to gain experience in many different areas of the Staples operation and furthered my willingness to adapt.
- Managed high volumes of customers and learned to operate under stress without compromising quality.

Book Seller

Lexington, KY

Barnes & Noble College

Aug 2022 - Feb 2023

- Worked independently and collaboratively to fulfill high volumes of student orders.
- Handled various troubleshooting tasks to appease customers while maintaining positive customer service.
- Became accustomed to dealing with the public and helping them locate items throughout the store

Production Associate

London, KY

Highlands Diversified Manufacturing

July 2022 - Aug 2022

- Utilized industrial machinery to reach a multitude of daily production goals under harsh conditions.
- Collaborated among 4 separate departments to efficiently manufacture automotive mechanisms.
- Experienced a wide variety of assembly-line type jobs that allowed me to learn about the production process and appreciate how even the smallest of items can have a lot of work behind it.

HONORS AND SKILLS

Governor's School for the Arts Visual Arts Alumni | Presidential Scholarship Award at the University of Kentucky | 2023 University of Kentucky Cat Hacks XI Hackathon First Place Winner

Languages: C++, C#, C, Python, JavaScript, HTML, CSS, SCSS

Frameworks: QT, Tkinter, Pillow, Pandas, NumPy, Latex, OpenCv

Other Skills: Adobe Photoshop, Adobe Illustrator, Blender

RELEVANT COURSEWORK

Discrete Mathematics | Systems Programming | Web Programming | Graphics and Multimedia | Algorithm Design | Logic Circuit Design | Calculus 1 | Calculus 2 | Calculus 3 | Machine Learning & AI Research | Database Management