

Cade DuPont

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EDUCATION

University of Arkansas - Fayetteville, AR

Expected December 2024

Bachelor of Science in Computer Science

Minors in Data Analytics and Mathematics

Major GPA: 3.90, Cumulative GPA: 3.53

WORK EXPERIENCE

Teaching Assistant for Programming Paradigms - University of Arkansas

August 2022 – Present

- Providing support to students through office hours, enhancing their understanding of course material.
- Collaborating with the course instructor to create assignments that reinforce content introduced in lectures.
- Evaluating students' performance on assignments, maintaining high academic standards and proficiency.

Sustainability Design Team Member - McMillon Innovation Studio

August 2023 – December 2023

- Worked with a team of selected students to maximize resource efficiency at a Walmart processing facility, achieving zero-waste through upcycling of excess materials into high-quality products.
- Conducted consumer surveys for sustainable product insights to inform product development decisions.
- Promoted a positive environmental impact and enhanced Walmart's responsible, forward-thinking brand image.

PROJECTS

Photon Laser Tag System

Fall 2023

- Reverse-engineered the Photon laser tag system design and implementation with a team of software developers.
- Created a user-friendly graphical interface using Python's Tkinter library, integrated with a database for storage of user information.
- Implemented communication with the Photon hardware using the UDP transport layer protocol.

Color Frequency Palette

Fall 2023

- Developed a C++ program utilizing the OpenCV library to perform image analysis and identify color frequencies.
- Generated a visually informative color palette image showcasing the 100 most frequent colors with their hex codes.
- Gained experience in computer vision and image processing, furthering proficiency in complex algorithms and data structures.

Dynamic Desktop Wallpaper Converter

Summer 2023

- Authored a Python script designed to make dynamic desktop wallpaper changes based on real-time weather data.
- Utilized OpenWeatherMap API to collect current weather information in Fayetteville, AR and Unsplash API to generate a search query for an appropriate wallpaper reflecting current weather conditions.
- Customized platform-specific operations to seamlessly implement wallpaper changes on both MacOS and Windows.

Association of Computer Machinery Hackathon

Spring 2022

- Invested 24 hours building a Google Chrome extension aimed at rendering the host application nonfunctional.
- Generated a random number to dictate the action required by the user to trigger an annoyance.
- Placed 6th among the 17 teams that took part in the event.

CERTIFICATIONS/HONORS

University of Arkansas

Awarded Spring 2021

- Chancellor's Community Scholarship - "Awarded to top candidates from the applicant pool who also have a demonstratable commitment to community service."

College Board

Awarded Spring 2021

- AP Scholar with Distinction - "Awarded to students who average a minimum of 3.5 on all their AP exams and score 3 or more on at least five of these exams."

SKILLS SUMMARY

**Programming Languages
Technologies**

Python, Java, C++, JavaScript, HTML/CSS, C, C#, SQL, MIPS Assembly, Bash Scripting
Git/GitHub, Supabase, MongoDB, AWS, Azure, Vue.js, Angular, Microsoft Office Suite