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: 3.93, Cumulative GPA: 3.60

WORK EXPERIENCE

Teaching Assistant for Programming Paradigms – University of Arkansas   August 2022 – Present
- Holding frequent office hours to provide additional support and guidance to students outside of class time.
- Cooperating with the course instructor to develop course materials that reinforce content introduced through lectures.
- Providing constructive feedback on students' projects, facilitating their learning of essential programming concepts.

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.
- Achieved 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

HomeGym – Association of Computing Machinery HogHacks   Spring 2024
- Led a team in developing an application in 24 hours aimed to match users with a personalized home gym.
- Utilized React for designing the user interface and Firebase for authentication and storage of user information.
- Achieved 4th place out of 30+ presenting teams and 170+ total participants.

Color Frequency Palette   Fall 2023
- Developed a C++ application using the OpenCV library to identify the most frequent colors in a provided image.
- Generated a visually informative color palette image showcasing the 100 most frequent colors with their hex codes.
- Gained experience utilizing traditional computer vision and image analysis techniques.

Notion Bookshelf   Fall 2023
- Implemented a JavaScript application for automatically adding books I'm currently reading to a Notion database.
- Used Google Books API to retrieve comprehensive book details based on provided titles.
- Integrated Notion API for interfacing with the application to store newly added book information.

Photon Laser Tag System   Fall 2023
- Reverse-engineered the Photon laser tag system with a team of aspiring software developers.
- Created a user-friendly graphical interface using Python's Tkinter library.
- Implemented communication with the Photon hardware using the UDP transport layer protocol.

Dynamic Desktop Wallpaper Converter   Summer 2023
- Wrote a Python script to make dynamic desktop wallpaper changes based on real-time weather in Fayetteville, AR.
- Generated 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.

The Fable of Link   Spring 2023
- Created a labyrinthian-style graphical adventure game in Java.
- Utilized Model-View-Controller architecture to ensure an organized, readable code structure.
- Implemented advanced functionality allowing saving of the game's map to a JSON file for automatic loading.

CERTIFICATIONS/HONORS

Chancellor's Community Scholarship – University of Arkansas   Awarded Spring 2021
- $5,000 per year, "awarded to top candidates from the applicant pool who also have a demonstratable commitment to community service."

SKILLS SUMMARY

Programming Languages	Python, Java, Rust, C++, JavaScript, HTML/CSS, C#, Go, C, SQL, Bash Scripting
Technologies	Git, Firebase, Supabase, Amazon Web Services, Azure, Vue.js, React, Angular, Flask