Ryan Forester

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EDUCATION

University of Illinois at Urbana-Champaign   **Champaign, IL**
B.S. in Computer Science, Minor in Statistics   Expected Graduation: 2024
GPA: 3.92/4.00
Relevant Coursework: Data Structures, Computer Architecture, Database Systems, Statistics and Probability
Awards: James Scholar, Dean's List (Fall 2021, Spring 2022, Fall 2022), National Merit Finalist (2021)

TECHNICAL SKILLS

Programming Languages: C++, Python, Java, SQL, Javascript, Kotlin, Verilog, R, Rust
Frameworks/Libraries: Flask, React, Pygame
Tools: Git/Github, VS Code, Android Studio, RStudio, Slack

PROJECTS

Flight Route Generator   *C++*   **November 2022 - December 2022**
- Concluded optimal routes between airports based on the availability of flights and the distance between airports
- Deduced individual airport accessibility and ranked them through the PageRank Algorithm to determine the most trafficked airports in America
- Interacted with the Openflights database to create these connections using the newest data

Image Resizer   *C++*   **March 2022**
- Shrank pictures while conserving overall integrity by removing sections of the image of the least importance
- Allows images to maintain their key features while having smaller dimensions and taken up less storage space
- Employed the seam carving algorithm to make these distinctions between sections of least energy/significance and most energy/significance

Popular Platformer Remake   *Python*   **September 2021 - December 2021**
- Remake of the famous "Super Mario Bros" platformer game
- Implemented a majority of the games original functionality including AI for the enemies, physics/collision detection, scrolling levels and backgrounds, and more
- Utilized the Pygame library to render assets and create hitboxes for entities

LEADERSHIP EXPERIENCE

Illini Disc Golf Club President   **May 2022 - Present**
- Raised over $5000 in funding for the club up from $0 in prior years
- Increased club membership by over 50%, and competitive team membership by 100%
- Acquired four corporate sponsorships, including BeReal and Prodigy Disc, which is one of the largest disc golf manufacturers in the world

Intro to Computer Science (CS 124) Course Assistant   **August 2022 - Present**
- Tutored over 50 students in programming basics in both Java and Kotlin
- Guided students using practical help over voice chats, in person, through course forums, and in office hours
- Proctored quizzes to prevent cheating and was responsible for 20+ students at a time

WORK EXPERIENCE

JOANN Fabrics and Crafts   **December 2021 - August 2022**
- Preserved store appearance, quality, and cleanliness, and maintained store organization
- Helped customers with various issues
- Trained new employees by educating them on store policies, software and devices used, and customer service