**DILLON R. HITTESDORF**

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**EDUCATION**

**University of Illinois at Urbana-Champaign,** *College of Liberal Arts & Sciences**Expected Graduation: May 2026*

*Bachelor of Science in Liberal Arts & Sciences (Mathematics)* **GPA: 4.00/4.00**

**Relevant Coursework**:Multivariable Calculus, Abstract Linear Algebra, Ordinary Differential Equations, Statistics and Probability, Data Structures, Discrete Structures, Fundamental Mathematics

**EXPERIENCE**

**Everyone Can Code Chicago –** Chicago, IL *June 2024 – August 2024*

*iOS App Developer*

* Developed a prototype for a safety app called Alertify in Swift that uses Twilio and location tracking to send automatic alerts to emergency contacts, collaborated with team members on all aspects of front and back-end design
* Presented the app prototype at the 2024 One Summer Chicago Showcase at Apple Michigan Avenue after being awarded a top 4 finish out of 43 teams in the app competition judged by Apple engineers
* Gained knowledge in Swift, iOS app development, and presentation skills from professional Apple creatives

**Academic Projects** – Champaign, IL *August 2022 – Present*

*Lead Programmer*

* Designed and implemented a program based off a modified Kruskal’s algorithm to generate random 2d mazes of any size in C++ as well as solve its shortest possible solution using BFS, printing the maze and solution to PNG files
* Optimized a C++ program to solve the 15 puzzle from any state using an A\* search algorithm with distance to the solution as the heuristic cost function, compared its performance to BFS and DFS-based alternatives
* Studied and wrote proofs for foundational theorems of mathematics such as the Peano existence theorem, the Jordan form, and the fundamental theorems of calculus
* Compiled a portfolio of original short stories and creative essays that contrasted thematic ideals of freedom and safety

**JCC Chicago (Apachi Northside)** –Chicago, IL *June 2023 – August 2023*

*Senior Counselor*

* Supervised and ensured the safety of a group of campers throughout daily activities and special camp-wide events
* Communicated with other counselors to streamline activity transitions and promote a positive work environment
* Learned valuable emergency response and conflict resolution skills through a variety of trainings and workshops

**LEADERSHIP**

**What You Will Shakespeare Company** –Champaign, IL *August 2022 – Present*

*Assistant Director*

* Worked with actors to help them break down and interpret the meaning of texts in fulfillment of the director’s artistic vision, taught fundamental theater concepts such as blocking, levels, cheating out, and projection
* Fostered a safe and respectful environment to encourage actors to reach their full potential regardless of previous experience or comfortability on stage, guiding them through memorization and performance techniques
* Organized and managed the acquisitions of props and costumes, communicated with local performance spaces

*Social Chair*

* Planned social events with other student theater organizations to nurture a relationship of community and collaboration
* Collaborated with marketing chair to generate interest in productions through posters and social media

**SKILLS, ACHIEVEMENTS & INTERESTS**

**Skills:** C++, Java, Swift/SwiftUI, Javascript, R, Mathematical Proofs, Italian (Elementary Proficiency), Keynote, Verilog, Linear Algebra, Differential Equations, FL Studio, Logic Pro

**Achievements:** LAS Dean’s List (Fall 2022 -- Spring 2023), 2023 Merit Award in the Italian Basic Language Program, 2022 AP Scholar with Distinction, 2021 AP Scholar

**Interests:** Music, Music Production, Creative Writing, Theater, Finance, Strategic Poker, Rubik’s Cubes,

Science Fiction, Weightlifting, Golf