

MAXIMUS LEWIS

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EDUCATION

Lewis University, Romeoville, IL	Expected: May 2023
Major: Computer Science	GPA: 3.8/4.0
Concentration: Software Engineering	
Minor: Mathematics	

TECHNICAL SKILLS

LANGUAGES: Python, Java, Go, SQL, JavaScript, NetLogo, C, Assembly
WEB: JavaScript, HTML, CSS, Node.js, Express.js, Bootstrap 5, Sass, Vue.js, PHP, MongoDB, Microsoft Azure, Google Firebase
HARDWARE/SYSTEMS: Windows, macOS, Android, iOS, ChromeOS, Unix, Ubuntu
APPLICATIONS: Microsoft Office, Google Docs Editors, macOS Terminal, Git, GitHub, Visual Studio Code, IntelliJ, Android Studio, Eclipse, WinSCP, PuTTY

RELEVANT COURSEWORK

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| <ul style="list-style-type: none">Algorithms and Data StructuresObject-Oriented ProgrammingSoftware EngineeringDatabase Systems | <ul style="list-style-type: none">Operating SystemsMobile Application DevelopmentApplied Programming LanguagesWeb and Distributed Programming |
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PROJECTS

In Theaters

- Movie information and ticket searching mobile application
- Android app written in Java that allows users to see new movies that are in theaters
- Utilized the IMDb API to get information about the movies
- Allows users to view movies, view more information, and search the web for tickets

Movie Deck - <https://movie-deck-1847e.web.app/#/>

- A web application that allows users to register, sign in, and post reviews of their favorite movies
- Written in Vue.js, Bootstrap 5, Sass
- Using Google Firebase for hosting, authentication, and Firestore NoSQL database

RESEARCH AND PRESENTATIONS

An Agent-Based Model of Environmental Transmission of *Clostridioides difficile* in Healthcare Settings

- Advisors: Dr. Brittany Stephenson, and Dr. Cara Sulyok
- An agent-based model written in NetLogo that simulates the environment of *C. difficile* infection within a hospital ward

- Model includes touch surfaces, healthcare workers, and patients within which the disease can be spread

Presentations

- Lewis, M. (2022, August). An Agent-Based Model of Environmental Transmission of *C. difficile* in Healthcare Settings. Undergraduate poster session presented at the Mathematical Association of America's 2022 MathFest in Philadelphia, PA.
- Lewis, M. Mahrat, L. (2022, November). An Agent-Based Model of Environmental Transmission of *Clostridioides difficile* in Healthcare Settings. Poster session presented at the Symposium on Biomathematics and Ecology Education and Research at Illinois State University.

WORK EXPERIENCE

Lewis University	Romeoville, IL
<i>Engineering, Computing, and Mathematical Sciences Tutor</i>	August 2022 – Present

- Aided students in Computer Science and Mathematics
- Administered tests when needed
- Collaborated with professors and other tutors to better aid students

Lewis University	Romeoville, IL
<i>Student Researcher</i>	June 2022 – August 2022

- Conducted a literature search on the topic of *C. difficile*
- Compiled notes on past *C. difficile* mathematical models
- Developed a different agent-based model for the spread of *C. difficile*
- Collaborated with a research partner, and faculty mentors on the direction and specific implementation of certain aspects of the agent-based model

Will County School District 92	Lockport, IL
<i>Building Custodian</i>	August 2018 – Present

- Ensure building cleanliness per district standards
- Operate machinery to achieve various cleaning tasks around the building and grounds
- Maintain school security by regulating entering/exiting public and staff
- Collaborate with staff to establish well running class and school events
- Perform assigned tasks effectively with minimal supervision

HONORS AND AWARDS

- The Janet L. Andersen Award for Undergraduate Research in Mathematical or Computational Biology (The Special Interest Group of the Mathematical Association of America on Mathematical and Computational Biology)
 - In recognition of "An Agent-Based Model of Environmental Transmission of *Clostridioides difficile* in Healthcare Settings."
- 2022 MAA MathFest Undergraduate Student Poster Session Outstanding Poster (The Mathematical Association of America)
 - In recognition of "An Agent-Based Model of Environmental Transmission of *Clostridioides difficile* in Healthcare Settings."
- Recipient, Schmidt Family Foundation Grant for academic achievement, 2020 - Present

- Dean's List, 6 semesters
 - In recognition of having a 3.5 GPA and above.