

MAXIMUS LEWIS

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HIGHLIGHTS OF QUALIFICATIONS

- Proficiency in multiple modern programming languages such as Python, Java, Go, and JavaScript
- Experienced with both front-end and back-end development
- Proven leadership, interpersonal communication, and collaboration skills gained from working on a yearlong research project and through coursework/projects
- Familiar with Agile Scrum software development methodology

EDUCATION

Bachelor of Science in Computer Science

Lewis University, Romeoville, IL

Minor: Mathematics

Expected: May 2023

GPA: 3.8/4.0

TECHNICAL SKILLS

LANGUAGES: JavaScript, Python, Java, Go, SQL, C, Assembly, NetLogo

WEB: JavaScript, React, HTML, CSS, Node.js, Express.js, Tailwind CSS, Bootstrap 5, Sass, Vue.js, Svelte, PHP, MongoDB, Microsoft Azure, Google Firebase

HARDWARE/SYSTEMS: macOS, Windows, Android, iOS, ChromeOS, Unix, Ubuntu

APPLICATIONS: Visual Studio Code, macOS Terminal, Git, GitHub, IntelliJ, Android Studio, Eclipse, Microsoft Office, Google Docs Editors, WinSCP, PuTTY

RELEVANT COURSEWORK

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|----------------------------------|-------------------------------------|
| • Algorithms and Data Structures | • Operating Systems |
| • Object-Oriented Programming | • Mobile Application Development |
| • Software Engineering | • Applied Programming Languages |
| • Database Systems | • Web and Distributed Programming |
| • Programming Languages | • Software Systems Capstone Project |

PROJECTS

QuizMaster - <https://quizmaster-c66a2.web.app/>: Software Systems Capstone Project at Lewis University

- Developed a web application, as part of an Agile Scrum software development team, that allows users to take quizzes on a variety of different topics
- Written in React, and Tailwind CSS
- Using Google Firebase for hosting, authentication, Firestore NoSQL database, and serverless Google Cloud Functions

In Theaters

- Movie information and ticket searching mobile application
- Android app is 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

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
- The 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

Engineering, Computing, and Mathematical Sciences Tutor

August 2022 – Present

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

Will County School District 92

Lockport, IL

Building Custodian

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

Lewis University

Romeoville, IL

Student Researcher

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

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, 7 semesters
 - In recognition of having a 3.5 GPA and above.