LIAM GATES

liamkaigates.cs@gmail.com | 929-342-8842 linkedin.com/in/liamkaigates | github.com/liamkaigates

Education

University of Massachusetts Amherst Bachelor of Science: Computer Science

Expected Graduation: May 2025

GPA: 3.97

Relevant Coursework: Programming with Data Structures, Programming Methodology, Software Engineering, Operating Systems, Algorithms, Artificial Intelligence

Skills

Languages: Python, JavaScript, C, C++, TypeScript, Java, CSS, HTML

Frameworks: React.js, node.js, Flask, Git, Unix, Scrum/Agile

Projects

Chess Engine

GitHub

Python

Dec. 2022

tHub

Dec. 2022

Dec. 2022

Dec. 2022

- Designed and implemented a sophisticated Chess Engine rocusing on user experience and advanced artificial intelligence.
- Engineered an intelligent AI opponent using alpha-beta pruning and multiprocessing, enhancing the gameplay.
- Integrated dynamic game animations through the pygame library, adding a visually engaging element to the user interface.

Algorhythmz @HackUMass 2023

React.js + Python Nov. 2023

GitHub

• Integrated React use

- Integrated React user interface, enhancing user experience for topic selection in a rap song application.
- Implemented a robust Client-Server model using Flask to facilitate efficient communication between the frontend and backend.
- Engineered a lyric generation system employing Natural Language Processing (NLP) techniques.

Work Experience

Department of Conservation and Recreation

Worcester, MA

Lifeguard

June 2022 - Aug. 2023

- Managed the safety of the pool by enforcing rules and policies.
- Provided customer service to 500+ patrons.
- Performed rescue and emergency procedures, such as CPR and first aid.
- Collaborated with other lifeguards to ensure a safe and enjoyable environment for patrons.
- Conducted regular pool inspections and maintained safety equipment.