Adam Aoun

Mission Viejo, CA 92692 | (949) 295-3518 | adamaoun46@gmail.com

EDUCATION

University of California, Irvine, Donald Bren School of Information and Computer Sciences   June 2024
Bachelor of Science in Computer Science, GPA: 3.25
Core Courses: Data Structures, Object-Oriented Programming, C++ Programming, Python, Java, Computer Organization, Assembly Programming, and Systems Programming

PERSONAL PROJECTS

Designing a Search Engine   Sept 2023 - Dec 2023
- Designed and implemented a web crawler in Python, targeting multiple UCI domains for data extraction.
- Utilized BeautifulSoup and lxml for efficient webpage parsing, data extraction, and content analysis.
- Developed a comprehensive search engine in a team, handling distinct components like indexing and searching.
- Devised and employed custom data structures to create an efficient inverted index, optimizing search operations.
- Utilized text processing techniques, including tokenization of alphanumeric sequences, stemming (using Porter algorithm), and importance-weighted indexing of content from HTML tags such as bold, headings, and titles.
- Implemented a ranking algorithm incorporating tf-idf metrics and keyword importance to return a prioritized list of search results, enhancing the user's search experience.

Checkers AI   April 2023 – June 2023
- Designed and developed a versatile AI-driven checkers game, capable of operating at beginner, intermediate, and hard difficulty levels, leveraging Python and AI principles for dynamic gameplay adaptation.
- Implemented distinct strategic algorithms for each level: Minimax algorithm with limited depth for beginner, Alpha-Beta pruning for intermediate efficiency, and Monte Carlo Tree Search (MCTS) for advanced decision-making at the hard level, demonstrating proficiency in AI and algorithm optimization.
- Enhanced AI realism through integration of heuristic evaluation and complex adversarial search strategies.

Food Fantasy   Jan 2022 - March 2022
- Led a team of 4 programmers in adopting Agile practices to create a sophisticated SQL database-driven application, enabling users to explore restaurants, view menus, and compile orders through an intuitive user-friendly interface.
- Developed the application in C++ using QT Creator, with continuous integration and deployment on GitHub.
- Implemented advanced data structures (Multimap, Hashing) and algorithms (Dijkstra, BFS, DFS, ADT, MST) to optimize the app's performance in calculating routes, search efficiency, and order processing.

LEADERSHIP EXPERIENCE

UCI Video Game Development Club, Irvine, CA   Sept 2022 - June 2023
Member
- Actively participated in bi-weekly strategic meetings, engaging in critical discussions on the lifecycle of video game development projects, from inception to completion.
- Collaborated with groups and contributed to diverse projects by leveraging skills in C++, Java, and game design.
- Maintained consistent communication with project leads by delivering detailed weekly progress reports

Associated Students University of California, Irvine, CA   Aug 2022 - June 2023
International Student Advocacy Intern
- Successfully orchestrated over 5 signature events and programs for international students, including cultural exchange fairs, educational workshops, language support groups, which significantly enhanced the overall university experience for international students by providing essential support and fostering a sense of community.

WORK EXPERIENCE

Best Buy, Costa Mesa, CA   September 2023 - Present
Geek Squad Agent
- Developed strong technical knowledge and proficiency in a range of computer hardware and software, facilitating effective communication of complex technical information to customers with diverse levels of expertise.
- Enhanced problem-solving skills by collaborating with tech professionals to diagnose and troubleshoot common computer issues, providing tailored solutions to meet individual customer needs.
- Gained valuable experience through interacting with customers honing interpersonal and communication skills.

SKILLS AND INTERESTS

Hard skills: Knowledgeable in C++, Python, Java, JavaScript, Web Dev, Data Structures, Qt Creator, MySQL
Additional skills: Fast learner, Critical thinker, Organized, Tech Savvy, and Cooperative
Languages: Proficient in English, Arabic, and French
Interests: Current tech, Game development, Soccer