Serena Nguyen

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Projects

Fabflix Movie Website
- Developed a **full-stack e-commerce web application** for browsing and purchasing movies, akin to **IMDb**.
- **Technologies Used**: Java, MySQL, HTML, CSS, JavaScript, jQuery, Bootstrap, Apache Tomcat.
- Developed server-side components using Java Servlets to handle client requests efficiently.
- Implemented secure user authentication and session management to protect user data.
- Optimized database queries to improve application performance and scalability.

Minesweeper AI Agent
- Developed an AI engine for the classic Minesweeper game, demonstrating proficiency in AI methodologies and game theory.
- **Technologies Used:** Python, Pygame.
- Engineered an AI agent utilizing propositional logic and inference rules to autonomously play Minesweeper, achieving a success rate of approximately 80.8% on beginner and 76.3% on intermediate levels, aligning with established benchmarks
- Implemented algorithms to analyze game board states effectively.
- Conducted comprehensive testing and debugging to enhance the AI's performance, resulting in improved decision-making speed.

Technical Skills

Programming Languages: Python, C++, Java, SQL
IDEs: Visual Studio, Eclipse, MySQL
Operating Systems: Windows, MacOS

Experience

Barista | Starbucks | San Jose, CA   **Sept. 2020 - Apr. 2022**
- Adapted quickly to new technologies and processes, showcasing the ability to learn and implement complex systems efficiently.
- Worked collaboratively in a team setting, enhancing communication and problem-solving skills
- Awarded Partner of the Quarter: recognized for exceptional problem-solving abilities and dedication

Program Coordinator | Berryessa Branch Library | San Jose, CA   **Jun. 2019 - Aug.2019**
- Enhanced program relevance through collaboration, showcasing teamwork and communication skills.
- Demonstrated project management by developing and managing program budgets, optimizing resources for community benefit.

Youth Advisor | District 4 Youth Advisory Council | San Jose, CA   **Aug. 2018 - Feb. 2019**
- Led initiatives addressing community challenges, reflecting leadership and problem-solving abilities.
- Coordinated the San Jose Mural Project, exemplifying project coordination and execution.

EDUCATION

De Anza College	**Sept. 2020 - June 2022**
Foothill College	**Apr. 2022 - June 2022**
University of California, Irvine - Computer Science, B.S	**Sept. 2022 - June 2025**

Relevant Coursework

Computer Organization, Data Structures and Algorithms, Data Management, Computer Networking, Object-Oriented Programming, Software Testing and Quality Insurance