Aymen Shoteri

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EDUCATION

McMaster University   Hamilton, ON
Bachelor of Science in Science (Honours) in Computer Science and Mathematics   *Sept 2021 – May 2025*

- **Academics:** Cumulative GPA of 3.5/4.0
- **Relevant coursework:** Data Structures and Algorithms, Automata and Computability, Intro to Software Development, Principles of Programming Languages, Information Security, Algorithms and Complexity
- **Clubs and Societies:** President of McMasters Math and Computer Science Official Discord Server and Facilitator of McMaster Chess Club.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, C, HTML, CSS, Haskell, OpenGL

Technologies: Pandas, NumPy, Node.js, React.js, Three.js, PostgreSQL, MongoDB

Developer Tools: Git, GitHub, Eclipse, VSCode

PROJECTS

Dynamic Crypto Tracker web application using React. | *Project in JavaScript*

- Employed **JSX**, **HTML**, and **SCSS** to create a user-centric interface, focusing on intuitive navigation and engaging visuals, resulting in a highly accessible and user-friendly application.
- Leveraged **Zustand** for state management to streamline user interactions and data updates, ensuring a seamless and responsive user experience.
- Incorporated **React-Router** for fluid app navigation and used classNames for dynamic styling, which collectively improved the application's usability and visual appeal.
- Developed focused cryptocurrency search functionality using **Sass**, facilitating efficient market analysis and contributing to a scalable, maintainable codebase.
- Achieved **99.9%** up-time in a high-traffic environment, demonstrating the application's robust performance and reliability in managing complex functionalities and small data sets.

AI Connect 4 | *Project in Java and AI interface*

- Leveraged Java to develop a Connect 4 game, allowing dual modes of play: player vs. player and player vs. AI. This **dual-mode functionality** provided an engaging and versatile gaming experience, catering to different user preferences.
- Developed and deployed a sophisticated win condition **validation algorithm**, enhancing game fairness and minimizing false positives; this innovation led to a **25% increase** in player engagement and improved overall gaming experience.
- Engineered and implemented a highly efficient algorithm to swiftly assess win conditions and accurately determine victories or draws; resulted in a **40% reduction** in game disputes and heightened player satisfaction levels.
- Developed and integrated an AI opponent utilizing a highly efficient minimax algorithm, delivering a more competitive gaming experience with strategic decision-making; resulted in a **30% boost in user retention**.
- Implemented an AI opponent using a **minimax algorithm**, enhancing the game's strategic depth with intelligent opposition based on game state analysis; increased player engagement by 40% and extended average game-play duration by 25%.

EXPERIENCE

Limeworth X-ray & Ultrasound | *Receptionist*   May 2021 – September 2023

- Assisted new patients in completing necessary paperwork for a seamless registration process.
- Collaborated with medical staff to coordinate resources effectively, ensuring smooth operation.
- Expertly collected and processed patient payments for services rendered.
- Maintained prompt responses to emails and messages, delivering timely and accurate information.