Aymen Shoteri

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EDUCATION

McMaster University	**BS in Computer Science and Mathematics**	*September 2021 – April 2025*

- **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:** Chairman of the Computer Science Student Society, President of McMasters Math and Computer Science Official Discord Server and Facilitator of McMaster Chess Club.

TECHNICAL SKILLS

Languages : Python, C/C++, JavaScript, TypeScript, HTML, CSS, Sass

Frameworks/Libraries : React Native, Three.js, Node.js

DevOps and API Tools : Git, GitHub, DBeaver

Others : Data Modeling, Design Patterns, JSON, MongoDB, MySQL, Eclipse, VSCode

EXPERIENCE

Software Engineer | *The Win Column*   *May 2024 – Present*

- Spearheaded the development of a dynamic educational platform using **JavaScript**, incorporating Coursera-like course management. Used **SCSS** implementation to increase manageability and easy to read structure.
- Utilized **Node.js** and **Express.js** for lightweight, efficient server-side capabilities and streamlined development of **RESTful APIs**, which enabled rapid handling of user requests and smooth interactions with the database.
- Ensured smooth operation for over **100 active users**, effectively managing their data and maintaining high performance through **MongoDB Atlas**.
- Engineered a responsive and intuitive user interface, ensuring seamless usability across different dimensions of screens, including Mobile accessibility

PROJECTS

Pokémon PvP Ranker | *JavaScript, React, SCSS* | *@github*   *January 2024*

- Designed and developed a dynamic web app for Pokémon PvP rankings, using **JavaScript** and **React** to enhance user experience.
- Integrated an **API** to display Pokémon images based on imported names, eliminating manual searches for users.
- Implemented a responsive layout with **SCSS** for seamless cross-device usability.
- Collaborated with users to gather feedback and make iterative improvements to the interface.

Dynamic Crypto Tracker | *JavaScript, React Native, SCSS* | *@demo* | *@github*   *August 2023*

- Created a user-centric web app for tracking cryptocurrencies using **JSX**, **HTML**, and **SCSS**.
- Utilized **Zustand** for streamlined state management, ensuring a seamless and responsive user experience.
- Incorporated **React-Router** for fluid app navigation and dynamic styling with classNames for improved usability and visual appeal.
- Developed focused cryptocurrency search functionality using **Sass**, contributing to a **scalable, maintainable codebase**.
- Achieved high reliability with **99.9% up-time** in a high-traffic environment, showcasing robust performance.

AI Connect 4 | *Java, AI Interface* | *@github*   *April 2023*

- Developed a Connect 4 game in Java with dual play modes: player vs. player and player vs. AI, catering to diverse user preferences.
- Implemented a sophisticated win condition validation algorithm, improving gaming experience and competitive edge.
- Engineered an efficient algorithm to assess win conditions, leading to a **40% reduction in game disputes** and heightened player satisfaction.
- Integrated an AI opponent using a **minimax algorithm**, delivering a competitive gaming experience and a **30% boost in user retention**.