Dhylan Usi

226-378-2499 | dhylanbu@gmail.com | linkedin.com/in/dhylan-usi | github.com/Dozzap

EDUCATION

Western University   London, ON
Honours Specialization in Computer Science   *Sept. 2021 – May 2025*
Relevant Coursework: Databases I, Calculus and Probability, Computer Architecture, Computer Organization, Data Structures and Algorithms, Operating Systems, Computer Networks, Software Engineering, Data Science, Statistics, Discrete Math

EXPERIENCE

Web Development Officer   Sept. 2023 - Dec. 2023
Western Continuing Studies   *London, ON*
- Gained hands-on experience in **web development** and **SEO strategies**, leading initiatives to optimize website content and structure, effectively boosting search engine rankings and online visibility.
- Developed a comprehensive understanding of enhancing website **ranking and visibility** on search engines, implementing practical SEO strategies and analytical insights to optimize web performance.
- Utilized **Destiny One CMS** and web development tools for **data analytics** and reporting, driving informed **business decision-making**.

Collection Assistant - Data Digitization   June 2023 - Aug. 2023
Western University   *London, ON*
- Managed a collection of over **31,000** historical items, ensuring **accurate** and up-to-date inventory records.
- Led critical data digitization projects, implementing **OCR technology** to reduce manual error handling time by **up to 70%** and expedite the digitization process.
- Implemented custom Python programs for data processing, increasing digitization efficiency from **10% to 80%**.

PROJECTS

Bûk | *MongoDB, Express.js, React.js, Node.js*   Sept. 2023 - Present
- Developed a RESTful API with **Express.js**, enabling real-time data delivery and a seamless user experience, leading to a 50% increase in user engagement and a 30% reduction in loading times.
- Integrated **ChatGPT AI** to offer personalized book recommendations by analyzing users' previous selections and feedback, resulting in a 70% increase in book sales and a 90% user satisfaction rate.
- Utilized **React** and **TailwindCSS** to implement a responsive UI/UX, increasing user retention by 40% and expanding the user base by 60% due to enhanced accessibility features.

Database | *C*   Oct. 2022 - Nov. 2022
- Implemented robust **data validation** and error handling mechanisms ensuring data integrity and user error management, enhancing the application's reliability and user experience.
- Designed an intuitive **console-based user interface**, facilitating seamless interactions for data input, update, search, print, and deletion, making the database user-friendly and efficient.
- Ensured **memory management** by dynamically allocating and deallocating memory, preventing memory leaks and ensuring optimal performance.

Wordle Clone | *Java*   Jan. 2022 - Feb. 2022
- Engineered a **Wordle Clone** employing **Java** and **Object-Oriented Programming**, showcasing adept problem-solving through the efficient implementation of word-checking algorithms, facilitated by custom object types and linked-list data structures.
- Enhanced **user experience** with an intuitive interface, integrating **decorator classes** to offer real-time feedback on player guesses. Employed methods from custom classes like 'ExtendedLetter', 'Letter', and 'Word' to dynamically update the UI according to the game's state.
- Guaranteed a reliable, bug-free application via comprehensive **QA testing**, ensuring robust functionality and seamless interaction between the game's logical and presentation layers.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, CSS, HTML, R, Scheme, Prolog, Assembly
Frameworks: TailWindCSS, Bootstrap, React.js, Node.js, Express.js, MongoDB, Flask
Tools: Postman, MongoDB Compass, Nodemon, Git, Jira, Confluence, BitBucket, Bash, fileZilla