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Portfolio

ADITYA UNIYAL

(226) 998-8245
adityasuniyal@gmail.com

EMPLOYMENT

Application Developer　　　　　**Lynch Fluid Controls**　　　　　**Summer 2023 – Fall 2023**

- Updated and maintained an order tracking web application utilizing a LAMP technology stack, focused on ensuring data integrity, security, and performance optimization.
- Enhanced inter-departmental communication through streamlined order management, leading to improved production efficiency and workflow synchronization.
- Implemented advanced data sanitization techniques to safeguard against SQL injection and cross-site scripting (XSS) attacks.

Back-end Developer　　　　　**Political Party**　　　　　**Summer 2019 – Fall 2019**

- Maintained a comprehensive database of voter demographics and voting history using MySQL and InnoDB, handling over 500,000 records.
- Improved data query performance by 30%, ensuring faster access and higher data integrity.
- Utilized HTML and JavaScript to maintain a dynamic website, leading to a 40% increase in daily visitors and a 25% improvement in user engagement

EDUCATION

London, ON　　　　　**University of Western Ontario**　　　　　**Fall 2021 – May 2025**

- BSc Specialization in Computer Science.
- Undergraduate Coursework: Data Structures and Algorithms; Software Tools and System Programming; Discrete Structures for Computing; Fundamentals of Operating Systems; Introduction to Software Engineering; Intro to Databases.

VOLUNTEER

International Peer Guide　　　　　**University of Western Ontario**　　　　　**Spring 2023 – Present**

- As an International Peer Guide, I've honed my leadership and team collaboration skills through organizing multicultural events and guiding new students. My role involves enhancing interpersonal communication by assisting students from diverse backgrounds, showcasing adaptability and problem-solving in addressing their unique challenges. This experience has significantly developed my mentorship abilities and capacity to work effectively in a team-oriented environment.

TECHNICAL EXPERIENCE

Projects

- **Movie Fight:** A web application which compares the stats of two movies picked by the user and determines which movie is statistically better. For this, the program compares award nominations, box office income, Metacritic score and its IMDb rating. *Technologies used: HTML, CSS, JavaScript, Rest API.*

- **WealthWatch:** A web application which offers intuitive budgeting, expense tracking, and financial analytics to aid users in informed financial management. It features a responsive user interface, automated expense categorization, and robust security with JWT authentication, ensuring a seamless and secure user experience. *Technologies used: MongoDB, Express, React, Node.js.*

- **ClearSpell:** A desktop application developed as a group project for an Intro to Software Engineering course. It is designed to spell check text documents by comparing words against a standard and a user-customized dictionary. The application detects and suggests corrections for various types of errors, including misspellings and miscapitalizations. *Technologies used: Java, JavaFX, JUnit.*

LANGUAGES AND TECHNOLOGIES

- *Languages:* Python, Java, C, JavaScript, HTML5, CSS3, Git, MySQL, PHP
- *Editors:* Visual Studio, Eclipse, PyCharm
- *Tools/Frameworks:* phpMyAdmin, REST APIs, REACT, Node.js, Express, MongoDB, Junit, JIRA, Confluence
- *Tech Stack:* Linux, Apache, MySQL and PHP (LAMP); MongoDB, Express.js, React, and Node.js (MERN)
- *Software:* Microsoft Suite