

Richard Joseph

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EDUCATION

Software Engineering Technology (3yr program)

Specialized in Business Intelligence, Database management, Network Application Development

Relevant Coursework: Data Structures/Algorithms, Object Oriented Programming, Operating Systems, Advanced Computer Security, Databases and Advanced SQL

Waterloo, ON

April 2024

WORK EXPERIENCE

Best Buy

Tech Sales Lead

Brampton, ON

02/ 2022 – 04/2023

- Tech sales lead at the busiest location in Canada
- Specialized in computers and computer accessories
- Good communication towards customers and employees as well as an efficient workflow is pivotal to success at Best Buy.
- 2x employee of the month with over 60 sales in 2 weeks which includes laptops and warranty

McLean Sherwood Event Rentals.

Associate Website Administrator

Orangeville, ON

06/ 2023 – 10/2023

- Refactored and redesigned main website using frontend technologies such as JavaScript
- Redesigned the backend databases written in SQL server using SSMS and decreased resource consumption by nearly 15%.
- Created Multiple C# (.NET) application to help visualize product quantity, pending outbound orders, as well as Andon display for assembly of products. Visualizations made with MS Charts.

PERSONAL PROJECTS

RELIABLE UDP

- Created a file transferring system over a “reliable” UDP protocol.
- Written in C++, using error detection methods such as LRC/CRC or checksum methods such as MD5 to confirm no packet loss during the file transfer process.

Crypto Magic Utility

- Linux based utility that can decrypt/encrypt text files by applying an ASCII key to each character in the file. Must parse through command line arguments to retrieve file name from system and apply a flag (-encrypt/-decrypt).
- Written and developed in C++ with Linux/UNIX shell Scripting

We Talk

- Chat System comprising of 2 application, the server and the client using TCP/IP communication protocol.
- Written in C++ using socket level programming as well as being a multi-threaded solution which can establish up to 10 connection to a single server at once. Integrated third party library (NCURSES) for text-based user interface for the chat system

Budget Cloud

- Budget Cloud is a dynamic web application that specializes in providing cloud computing price estimates as well creating a sample cloud architecture based on user provided data. Currently limited to IaaS cloud services specifically for Amazon Aws, Google Cloud Platform (GCP), Microsoft Azure, and Oracle Cloud Infrastructure (OCI).
- Web application developed using React for frontend and Django python for backend as well as using REST API to fetch relevant information about services and prices from providers.

Personal Website

- A personal portfolio webpage to display skills, projects and contact information.
- Developed using React.js, bootstraps for animation as well as CSS for formatting and styling

ADDITIONAL

Technical Skills: SQL/SQL SERVER databases, PHP, JavaScript, HTML/CSS, Python, C/C++, GitHub revision control, strong understanding of data structures.

Languages/skills: Fluent in English with strong communication skills, highly self-motivated and always eager to learn.