

Richard Joseph

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EDUCATION

Software Engineering Technology

Specialized in Business Intelligence, Database management

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 T-SQL and SSMS leading to decreased resource consumption by nearly 12%.
- Designed and developed 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.

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 Infrastructure as a Service (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. (www.budgetcloud.ca)

Intrusion Detection System

- Intrusion Detection System developed using python. Features include network packet monitor/sniffing for TCP connection as well as HTTP connections over port 80. Future feature implementations include, signature-based detection using SNORT open-source community Rules, Anomaly Detection, Protocol Analysis and Alert generation and notification. Application is made to monitor and secure network traffic and

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, Unix Shell, PowerBI, Tableau, PowerShell, DevOps, Agile, Shell Scripting, Windows PowerShell

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