Vithursan Thiruvarooran

77 Victoria Wood Ave, Markham, ON L6E 1K3

647-208-9143 | vithursan.thiruvarooran@mail.utoronto.ca

SKILLS PROFILE

Development Stack

- **React/Redux, Angular, Node, Python, PostgreSQL, MySQL, MongoDB, JavaScript, Java, C**

Technical

- Proficiency in **Python**, **C**, and **Java** as well **Object-oriented** programming acquired through designing and developing software for professional, academic, and personal projects
- Excellent understanding of database fundamentals and design that has been acquired through co-op position at CHASS Data Centre (UofT) while using **PostgreSQL** and **MySQL** regularly
- Strong understanding of **algorithms**, **data structures**, and **complexity analysis** acquired through university courses and Co-op projects
- Clear and concise writing skills gained through developing test documentation and software design documentation for previous co-op position

Interpersonal

- Experienced leadership and project management skills developed through lead development role at CHASS Data Centre and as project lead on academic projects
- Great customer service skills gained through interacting with concerned clients and stakeholders at CHASS Data Centre and as receptionist at a nursing home

WORK EXPERIENCE

Application Developer Co-op

CIBC   January 2020 – August 2020

- Completed PEGA System Architect Certification Exam by learning from online material and gaining hands on experience working on CIBC projects
- Initiated and delivered a web interface built in Angular that was used by developers for sending daily code deployments
- Identified and debugged memory leaks in the Pega Sales Application and integrated hot fixes after consulting with Pega Engineers
- Developed front-end and made code simplifications for Sales Application using Pega application and CSS

Application Developer Co-op

University of Toronto IIT   January 2018 – August 2018

- Proficiently worked in a Linux environment and used scripts and PostgreSQL regularly to extract, transform, and load data into the CHASS Data Centre web application
- Designed and implemented solutions to upgrade CHASS Data Centre to ingest and provide clients with Statistic Canada's newly modified CANSIM data sets
- Rigorously conducted QA tests on the University of Toronto Departmental websites and the CHASS Data Centre and consistently identified important functional and design bugs
- Developed Python and Perl scripts to efficiently parse and transform data files into a format that could be utilized by the CHASS Data Centre systems
- Developed Perl and pgSQL scripts to parse daily Apache Log files and load data into database to be used to extract CHASS Data Centre usage statistics for administrative purposes
- Professionally interacted with clients and stakeholders to address questions and concerns regarding the CHASS service

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IT and Administrative Assistant
Shepherd Village Inc   **July 2017 – August 2017**
- Initialized new computer systems with Windows 7/8/10 operating system and other necessary software and deployed them to needed workstations in an efficient manner
- Troubleshooted broken computers by analyzing symptoms, isolating the source of the problem, determining the severity of the issue, and finally developing and implementing the most feasible solution
- Documented all issues and errors discovered when troubleshooting and the solutions that were implemented as well as any changes or updates made to a system
- Acquired basic understanding of Windows server, VMware, and remote desktop tools

VOLUNTEER EXPERIENCE

Event Volunteer and Receptionist
Markhaven Home for Seniors   **June 2015 – September 2015**
- Professionally represented Markhaven as their receptionist and provided families and residents with relevant information and instructions
- Worked closely with individual seniors through different forms of therapy such engaging in conversations, playing games, or participating in designated activities and acquired valuable communication and interpersonal skills
- Organized and helped setup small weekly events for residents taking into consideration how the residents would participate and stayed engaged and anticipating potential complications such as upset and uncooperative residents

PROJECTS

Catan Data Tracker   **2022**
Individual
- Designed modern responsive MERN web application to track and analyze personal Catan game data and see interesting trends
- Configured and deployed application on personal server using Nginx webserver and pm2
- Implemented authentication so application can be used by friends and family to track and analyze game data

Chatbot ReST Application (Course Project Mark 94%)   **May – July 2019**
Team of 4
- Designed Chatbot solution for real client as a course project using agile development (ranked 4th in over 15 groups)
- Demonstrated excellent use of Git and Jira best practices that allowed for smooth, organized, and efficient rapid agile development with team
- Utilized new tools like Spring Boot, Maven, Apache Lucene, and IBM Watson/Discovery in a short 3-month period and successfully utilized them in the project

EDUCATION AND AWARDS

Honours Bachelor of Science   **2016 – 2022**
Computer Science Specialist Co-op, Software Engineering
University of Toronto Scarborough
- University of Toronto Entrance Scholarship ($1000)