Roman Singh . Jarvis Consulting

I graduated from McMaster University with a B.Sc. in Physics and a background in computer science. I am currently employed at Jarvis Consulting Group with the intent to gain more hands-on experience in software development through working on various exciting projects and utilizing various technologies and frameworks. Working at Jarvis Consulting Group has also allowed me to exercise skills in scrum, agile, time management, and collaboration. My programming experiences during my undergrad classes sparked my interest in software development. I highly enjoy problem-solving and the dynamic nature of the profession is what excites me most.

Skills

Proficient: Python/Django, JavaScript/React, RDBMS/SQL, Agile/Scrum, Git

Competent: Java, Linux/Bash, HTML/CSS, Docker, Maven

Familiar: C, MATLAB, LaTeX, Ajax, JQuery

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis_data_eng_RomanSingh

Cluster Monitor [GitHub]: Implemented a monitoring agent that can track the hardware specifications and usage of various nodes and store their data in a database. The monitoring agent was developed through the use of bash scripts and utilized a PostgresSQL database, provisioned by docker. Bash scripts were programmed to extract hardware specs, while crontab would provide periodic updates of the usage data. Manual testing was done by running bash scripts on the terminal to ensure the results were as expected.

Grep App [GitHub]: Created an app that mimics the Linux Grep command, allowing users to search for matching strings. The project was implemented using Java along with Lambda and Stream APIs. Automated testing was done using JUnit to make sure functions behaved as intended, along with manual testing to ensure the output file was correct. The app was packaged using Maven and deployed on Docker Hub using Docker.

Highlighted Projects

MusicX: Built a full-stack scalable collaborative music-playing web app, by developing a REST API using Python Django REST framework, to connect to the Spotify API, enabling guests in a room to vote on playing/pausing, or skipping a song. The front-end was developed using React to create the pages, along with material UI components to add style. Manual testing was done to ensure the web pages behaved as intended. The website was hosted using a free python website.

Professional Experiences

Full Stack Developer, Royal Bank of Canada (May 2022 - October 2022): Developed a full stack scalable application, Project Management Continuous Initiative, allowing members of the Business Intelligence team to track each other's progress on projects. Implemented a SharePoint API using Django REST framework to extract project data from SharePoint and upload it onto our RBC project tracking application. Tested the application by utilizing a PostgreSQL database to track and report all errors, while implementing new requirements and making sure existing functionality is not compromised.

Software Developer, Jarvis (December 2021 - Present): Developed agile methodologies by collaborating with a scrum team to develop and implement numerous projects utilizing technologies such as Linux, PostgreSQL, Docker, and Git. Assisted others in project-related issues, and held daily scrum meetings as a scrum leader.

Education

McMaster University (2015-2019), Bachelor of Science, Physics and Astronomy - 3rd Place Deca Regionals - 2nd Place McMaster University Physics Contest

Miscellaneous

- Web Programming with Python and Javascript (Harvard edX, 2020)
- Languages: English, Punjabi, Hindi, Urdu

- Assistant Bhangra Dancing Coach
- Fitness Influencer
- Dog Watcher
- Comic Book Fan