Carla Castaneda . Jarvis Consulting

I am a recent Computer Science graduate from Wilfrid Laurier University with a passion for technology and education. I love helping others and learning about the problems that are affecting my community. I feel most fulfilled when I can help solve a problem using my creativity while also challenging myself and learning new skills. At my current role at Jarvis Consulting I have been able to strengthen my problem solving skills and my knowledge of object oriented programming and APIs, and as well, be able to pick up on so many new technical skills such as bash scripting and Agile development. I am most excited about how artificial Intelligence will progress and help better the lives of people by providing solutions for many global and local issues.

Skills

Proficient: Python, Node.js, RDBMS/SQL, Java, Git

Competent: React.js, Express.js, HTML/CSS, Agile/Scrum, C, Android Studio

Familiar: Linux/Bash, Docker, PHP, Pandas, VBA

Jarvis Projects

Project source code: https://github.com/jarviscanada/jarvis data eng CarlaCastaneda

Cluster Monitor [GitHub]:

- Created a Monitoring Agent program using Bash scripts which collect hardware specs and memory usage data from nodes in Linux cluster. I did this by creating a PSQL instance with docker and creating a database called host_agent using PSQL REPL and creating tables host_info and host_usage to store the hardware specs and server usage. I then created shell scripts host_info.sh and host_usage.sh to collect the information with bash commands stored in variables and then inserted them into the respective database tables . host_usage.sh inserts a new entry to the host_usage table every minute that the server is running and is healthy. We do this by using crontab to schedule the script to execute every minute.
- Technologies used PSQL, Docker, Linux/Bash, git/github, shell scripts

Core Java Apps [GitHub]:

- Twitter App:
- JDBC App: Developed CustomerDAO (data access object) which performs CRUD operations on customer table of hplussport database stored in docker psql instance. also contains a database connection Manager class to connect to JDBC URL which contains the database and host and username and password. Technologies used are JDBC to manipulate data in database using CRUD operations and Customer objects, PSQL to acess database, MVN, Docker, intelliji and git/github.
- Grep App: Developed a Grep (regex) style application in Java which is able to parse through a directory of Files, similar to the grep linux command which returns matching strings from files. Able to recursively check a root directory and all its child directories for files which contain the regex pattern specified by user in command line arguments and write the matching lines to a file also specified by user. I have used a number of libraries and API's such as Stream, Arrays, ArrayList Lambda expressions, Regex API. The IDE used is Intelliji and docker was used for deployment.

Highlighted Projects

CuddleBug App [GitHub]: Developed an Android application that allows users to create a movie list based on suggested movies and view movies in common with friends. Used Google Firebase to implement user login and mongodb to store users and movies.

Sudoku Puzzle Solver [GitHub]: Implemented the AC-3 Algorithm (Arc consistency algorithm) and backtracking that can solve a sudoku puzzle. Used MongoDB database to store user names and the amount of time the puzzles take to be solved. Can solve puzzles randomly generated or take user input. Allows for user to solve puzzles of varying difficulties and highlights sudoku box red if the user input violates the sudoku puzzle constraints and will not allow for any other inputs except numbers to be entered. Used Javascript, Node.js, React, Flask, Python, HTML/CSS, MongoDB

Professional Experiences

Software Developer, Jarvis (2022-present): Develop Full stack solutions using programs and application for clients with differing business needs

Tutor, Code Ninjas (2020-2021): Introduced students to programming concepts using Javascript and Code Ninjas curriculum. Created, Implemented and Managed student progress feedback system for parents and built strong relationships with parents and students

Education

Wilfrid Laurier University (2017-2022), Honours Bachelor of Science, Computer Science - Entrance Scholarship-Faculty of Science - Dean's List (2017, 2018): Faculty of Science - Dean's List (2020, 2021): Faculty of Science - GPA: 10.56/12 - Graduated With Distinction

Miscellaneous

- Video Editing
- Digital Advertising and Marketing
- Flamenco
- Painting
- Hiking