Paul Guevarra . Jarvis Consulting

I am a recent graduate from Ryerson University with a Bachelor of Science (Honours) in Computer Science. During my time at Ryerson, I had the opportunity to study database systems, machine learning, and software engineering and strengthen my Programming Fundamentals. I am currently a Data Engineer at Jarvis Consulting Group working on several projects such as Linux Cluster Usage Administration, Java Grep, JDBC, and Java Twitter Applications. During my time at Jarvis, I have developed my skill sets while following agile software development practices and implementing different technologies (Psql, Docker, Maven, etc.) I am a fast learner and a team player who is seeking new challenges and opportunities to contribute to a team as a Data Engineer.

Skills

Proficient: Java, Python, RDBMS/SQL, Agile/Scrum, Git

Competent: Docker, Linux/Bash, JUnit, Maven, MongoDB

Familiar: HTML/CSS, C/C++, Javascript, Hadoop, HTTP/JSON

Jarvis Projects

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

Cluster Monitor [GitHub]: Developed a Linux Cluster Monitoring Agent that is used to record and monitor nodes/server hardware specifications and resource usage. The project was implemented on Linux CentOS 7, using a docker container running PostgreSQL. Created a RDMS database to record and analyze each node's information such as hostname, host's CPU number, total memory free, disk I/O, CPU MHz, etc. Created a crontab to run a bash script every minute to record data into the database. Created SQL queries used against the database to detect any potential host failures and average memory usage of each host.

Core Java Apps [GitHub]:

- Twitter App: The twitter CRUD Application is a Java application that allows the user to post, retrieve, and delete Tweets on a Twitter Developer Account. This is accomplished using the official Twitter REST APIs. The application's design is based on the MVC architecture, consisting of a controller layer, service layer, data access object layer (DAO), and a model. The application was implemented using Java, Maven, Twitter REST APIs, HTTP & JSON, JUnit and Mockito, Spring, and Docker.
- JDBC App: Implemented a Java Database Connectivity (JDBC) application, that is used to create and establish a connection to a PostgreSQL database. The application allows the client to perform predefined operations such as CRUD (Create, Read, Update, Delete), against the database. The application was implemented using Java, JDBC, Maven, PostgreSQL, and Docker.
- Grep App: Designed a Java Application that replicates the Linux grep command, searching files in a directory, matching strings within the files (using regex), and output matches in another file. The application was implemented with Java 8's Lambda and Stream APIs, Maven, and containerized using Docker.

Highlighted Projects

Gas Tracking Application: Created an application in a team to keep track of users' spending habits and gas consumption. This was developed using Android Studio and Java, and Google Firebase. The features of the application included a secure authentication system keeping track of username and passwords in the firebase database, a map that tracks the users' location and display nearby gas stations and recording different metrics and information of the car's model and gas consumption.

Music Genre Clustering: Worked in a team of two to cluster songs into different genres by implementing different machine learning algorithms from the sklearnit library such as Gaussian Mixture Model, K means, Principal Component Analysis, etc. We preprocessed a Spotify dataset and implemented these algorithms using Python and Google Colaboratory. We compared the accuracy of the algorithms used in order to recommend a song to a user.

Professional Experiences

Software Developer, Jarvis (2021-present): Designed and implemented multiple projects and applications using wide variety of technologies such as Java, PostgreSQL, Docker, Maven, APIs, Git and GitHub. Worked in a team of software

developers in an Agile/Scrum work environment. This includes daily scrum meetings and sprints while having the role of being the team lead for two weeks. The team lead's role contained responsibilities leading the daily scrum meeting, improving project's workflow, finding solutions to impediments, and discussing areas of improvement.

Education

Ryerson university (2017-2021), Bachelor of Science, Computer Science - Dean's List (2020-2021)

Miscellaneous

- Keyboard Enthusiast
- Competitive gaming
- Volunteer, Stay Connected with Technology Program: Assists seniors with issues with different technology devices, software, and social media platforms.