

Chi Calvin Nguyen . Jarvis Consulting

I am a dedicated team player who is inquisitive, punctual, and goes by the book. I recently graduated with an Ontario College Advanced Diploma from the Computer Programming & Analysis program at George Brown College. During my time at George Brown, I've learned technologies such as React, Node.js, Angular, MongoDB, Spring, and ASP.NET by building projects like a front-end application that connects to an open-source weather API or full-stack applications where we built both the front and backend while following the Agile project management methodology. I've also gained other skills outside George Brown that are crucial to a workplace. My ability to communicate and act as a team player established itself throughout my time as a bartender/server. I worked in a rough fast-paced environment that required me to be on my toes, give the best possible service to customers, and work within a tight-knit team. I am quite a hobbyist with hobbies such as brewing beer, where I experiment with recipes to get the best possible batch, which is why I also like tech because I constantly learn, test, and create software. Overall, I'm hoping for an opportunity in the software development industry where I can prove myself as a team member.

Skills

Proficient: JavaScript, Angular/React, NodeJS, Git, RDBMS/SQL

Competent: Java, Spring, Docker, Python, Agile/Scrum, REST APIs, HTML/CSS

Familiar: Linux/Bash, C#, ASP.NET, PHP, Swift

Jarvis Projects

Project source code: https://github.com/Jarvis-Consulting-Group/jarvis_data_eng-C-CalvinNguyen

Linux Cluster Monitor [GitHub]: Collects the hardware specifications and usage for the Linux nodes within a cluster and stores this data inside the database. Docker manages a container running the PostgreSQL database, and this container is set up using a Bash script (psql_docker.sh). The other Bash scripts (hardware_info.sh and hardware_usage.sh) collect and store the data in the database using Linux commands like lscpu, vmstat, and psql. Finally, a cron job schedules the script's execution every minute and stores the data in the PostgreSQL database within the Docker container.

SQL: Manipulate an Existing Database [GitHub]: Familiarize ourselves with concepts of relational databases, relational database management systems, structured query language, optimizations, and data models. To grasp these concepts, I worked on manipulating existing data using an IDE called pgAdmin and manually compared my query results with the expected results given. The file clubdata.sql, which contained the existing data, was inserted into a PostgreSQL database deployed within a Docker container.

Core Java Apps [GitHub]:

- Twitter App:
- JDBC App:
- Grep App: Designed the Java Grep app to replicate the egrep Linux command with the recursive option enabled so that it reads all files within the directory or subdirectory and includes a redirection operator to write matched lines to a file (egrep -r [regex/pattern] [sourceFile] > [targetFile]). Implementation involved using core Java packages like stream API and lambda functions to iterate through directories, lines from a file or a string stream, and java.io, which reads and writes text data from or to the files. Maven builds the project, packages it into a JAR file, and manages dependencies like SLF4J. Debug logging used SLF4J, and unit testing used JUnit4, which aided in manually testing the app by displaying files and matched lines. For deploying, we created a docker image using a Dockerfile, distributed it onto the Docker hub, and ran it on a docker container.

Highlighted Projects

Ionic/Angular Mobile Music Player Application & Streaming System [GitHub]: Plays local audio files on Android mobile devices, and the app can also create an account to upload and stream files from the backend server/system. MongoDB stores account information once an account is registered. The front-end/client-side mobile application uses Angular/(Ionic); it can read local audio files, stores their metadata into an SQLite local storage, play these files, and connect to the backend server once authenticated. The NodeJS backend server allows users to create accounts, upload audio files onto the server, and stream it back to the user.

Spring Cookbook App [GitHub]: Allows users to create, manage, search, share, and favorite recipes on the application. Includes other features like planning a meal schedule or creating a shopping list from the ingredient's checklist in a

recipe. The project uses Spring for the backend controllers and services, Thymeleaf for the front-end templating engine in HTML/CSS files, and H2 Database that is integrated into Spring automatically through a SQL file.

Professional Experiences

Software Developer, Jarvis (2023-present): I joined as a Junior Software Developer to consult and aid in developing Jarvis' client's software solutions. To do this, I learned new technologies while working on projects at Jarvis in an Agile/Scrum environment where there were daily scrum meetings in the morning to discuss project progress and sprint meetings every two weeks. The technologies learned at Jarvis are specially selected as they are common within the professional tech workplace environment, and an example of these technologies are Linux, SQL, Java, Spring, etc.

Bartender/Server, Hazel's Diner (2018-2020): Worked as a team in a fast-paced environment where communication with coworkers and customers was the key to fulfilling orders and providing excellent service within a given time frame. Responsibilities of the position included bussing food, mixing drinks, cleaning tables, managing dishwashers, and other tasks. I gained certifications such as Smart Serve and First Aid for the position. I learned more about the restaurant's workflow when working alongside the team, and this diversified my responsibilities within the restaurant.

Education

George Brown College (2019-2022), Ontario College Advanced Diploma, T127 Computer Programmer Analyst - School of Computer Technology - Dean's List (2019-2022): Was on the Dean's list by achieving a term GPA above 3.5 - GPA: 3.83/4.0

Miscellaneous

- Co-operative games like board games or online multiplayer video games.
- Brewing beer (Pale ales, IPAs, Stouts)
- Leisure ice skating, watching hockey (on TV or in-person) and playing street hockey or pickup hockey (shinny).