Tristan Tapson . Jarvis Consulting

I am a recent McMaster University Computer Science graduate looking to practice my skills in a professional environment; currently, I am working for Jarvis Consulting as a software developer. Since high school, I have always enjoyed the wide range of problems that programming can let me solve, as well as the many complexed challenges that accompany working towards a well structured solution. I have also tutored high school students in mathematics and programming. Coding is an excellent tool to utilize in solving many various problems that we encounter in our lives, and can also be used to make our lives substantially easier if applied correctly.

Skills

Proficient: Java, Linux/Bash, C/C++, Object Oriented Programming (OOP), Git

Competent: RDBMS/SQL, HTML/CSS, Algorithms, Agile/Scrum, Unit Testing, IntelliJ IDE

Familiar: Python, Haskell, Elm, Concurrent Programming, Docker, Spring Framework

Jarvis Projects

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

Cluster Monitor [GitHub]: Developed a linux cluster monitoring agent that stored key hardware information and usage within a database within a client-server architecture. A postgreSQL database is provisioned on a client machine using docker, and a bash agent collects relevant information to be stored within the database tables. In addition, the afformention inforation is retrieved at periodical intervals with Crontab, and the database is queried using SQL.

Core Java Apps [GitHub]:

- Twitter App: Developed an app that allows for CRUD (Create, Read, Update, Delete) operations to manage a personal twitter account through the command line, alongside the use of HttpClient and the Twitter REST API. Tested with JUnit and Mockito, various integration tests and unit tests were done to ensure that to project is working correctly. In addition, spring framework is also applied to handle dependency management and injection concerns.
- JDBC App: Implemented a JDBC app that connects to a postgreSQL database. CRUD (Create, Read, Update, Delete) operations are performed to update the database, and they manipulate and modify relevant information; here, the Data Access Object (DAO) design pattern is used while the database is queried using SQL.
- Grep App: Created a grep app in Java that allows for the search of files within a root directory and its subdirectories, returning all lines containing a specified regular expression. The app is very similar to the grep command in Linux, and also uses stream APIs and lambda notation to handle insufficient memory.

Springboot App [GitHub]: Not Started

Python Data Analytics [GitHub]: Not Started

Hadoop [GitHub]: Not Started

Spark [GitHub]: Not Started

Cloud/DevOps [GitHub]: Not Started

Highlighted Projects

Personal Webpage [GitHub]: Built a personal webpage to display my skills in an interactive format, as well as to showcase my skills in web development; tools used were HTML and CSS. Website can be found at: https://tristantapson8.github.io/

Professional Experiences

Software Developer, Jarvis (2022-present): Worked as a software developer in a Scrum environment, while implementing mutiple projects using a variety of technologies to enhance my skillset towards industry standards.

Math & Programming Tutor, Oxford Learning Centers (2020-2022): Worked closely with high school students in aiding them with math and programming homework help; focus involved problem solving at a high level, as well as efficient and effective communication.

Education

McMaster University (2013-2019), Bachelor of Applied Sciences, Computer Science - GPA: 3.2/4.0

Miscellaneous

- Piano playing
- Competitive soccer/volleyball
- Casual video games