

Humza Afzal . Jarvis Consulting

I am a University of Toronto Graduate with an Honours Bachelor of Science. I majored in Computer Science and Statistics along with a minor in Mathematics. Fintech is interesting to me since I love stocks and personal finance. I also find artificial intelligence interesting and would love to develop its real-world applications.

Skills

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

Competent: NoSQL, R, Django, REST, C

Familiar: C#, HTML/CSS, Unreal Engine/Unity, Javascript, Racket/Haskell

Jarvis Projects

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

Cluster Monitor [GitHub]: Implemented a Linux cluster monitoring agent. It registers a computer onto the database and tracks its usage data every minute and stores it in the database. System administrators would find this application useful because it lets them see the usage data on different computers in the cluster to see if they would need to adjust the specifications on any of the machines. The technologies used for this project were bash, git, Docker, and PostgreSQL.

Core Java Apps [GitHub]:

- **Twitter App:** This project utilized the Twitter REST API in order to send requests to either post, look up or delete a tweet. The application takes user input via the command line and converts it into a request which is sent to Twitter using their REST API. Twitter then returns the Tweet object that was either posted, looked up, or deleted and sends it back to the user. This project uses the Twitter REST API, HTTP Client, maven, Docker, the Spring framework, as well as many other Java libraries.
- **JDBC App:** This application utilizes JDBC to access a PostgreSQL database to perform CRUD operations. The Postgres database was hosted on a Docker container that used the postgres:9.6-alpine image. Maven was used as a build manager to build all the dependencies needed.
- **Grep App:** This project is an implementation of the grep bash command on Java. It parses through all the files in a given root directory and prints out lines based on a regex defined by the user. The technologies used in this app are core java libraries, lambda functions, streams, and the IntelliJ IDEA IDE. Docker was also used to dockerize the application and uploaded it to DockerHub.

Highlighted Projects

Tower Defense Game: Utilized pygame to make a tower defense game. Worked in a team of 6 people following an agile/scrum development cycle using Jira with daily standups. Players used currency which is earned through killing monsters and spent by placing towers to kill the monsters. Added hitboxes and movement detection.

Paint Program: Designed a paint application using Java and JavaFX using the MVC design pattern. Collaborated in a team of 4 following an agile/scrum development cycle. Managed the user stories and assigned them to the other collaborators. Implemented different brushes, shapes, and colours as well as a save and load feature.

Professional Experiences

Software Developer, Jarvis (2022-present): Worked in a team of 9 in an agile/scrum work environment. Utilized my skills in Linux and SQL to create a Linux cluster monitoring agent.

Line Cook, Nando's (2019): Excelled in a fast pace work environment that required high precision and attention to detail. Quickly grasped the skills in 1/3 of the time. Worked well as part of a team of 2-4 people.

Education

University of Toronto (2017-2022), Honours Bachelor of Science, Computer Science, Statistics and Mathematics

Miscellaneous

- Waterloo Math Competition Medal Winner x2
- Honour Roll: Grade 9 - 12