

# Gauthaman Gnanasekaran . Jarvis Consulting

I am a recent graduate and an avid learner that is always seeking ways to improve my skill as a programmer. I graduated in Carleton University with a Bachelor's in Electrical Engineering. I also recently got a postgraduate certificate in Seneca for Database Application Development. My main strengths are learning/grasping new things quickly, being a team player that is committed to producing the best outcome for the team as a whole, and adapting to fast-paced environments.

## Skills

**Proficient:** Java, JavaScript, React, Agile/Scrum, Git

**Competent:** SQL, Node.js, SpringBoot, HTML, CSS

**Familiar:** Docker, C, MatLab, Python, Linux/Bash

## Jarvis Projects

Project source code: [https://github.com/jarviscanada/jarvis\\_data\\_eng\\_GauthamanGnanasekaran](https://github.com/jarviscanada/jarvis_data_eng_GauthamanGnanasekaran)

**Cluster Monitor** [GitHub]: This project will log the hardware specifications and the usage of the server to a database. The project uses bash script and CRON agent to log the usage every minute. This is then saved to a PostgreSQL container created using a docker image.

**Core Java Apps** [GitHub]:

- **Twitter App:** This project used the Spring framework to perform CRUD operations by connecting to the Twitter API. The twitter API uses OAuth version 1.0. The initial connection was made with postman to check if the authentication and authorization process was working correctly. The initial Create, Read, Delete operations were performed using postman as well. The java application utilised the Model, View, Controller (MVC) Architecture. The connection was handled by the HttpHelper class, the business logic was handled by the Service class, the controller was used to handle the user input. This project was tested using Mockito and JUnit. The application was packaged using Maven and deployed using Docker.
- **JDBC App:** This project uses Java Database Connectivity interface to connect the java program to API from Java to PostgreSQL. The project also implements the Data Access Object pattern for the API. The project used PostgreSQL docker container, and DBeaver Workbench which worked as the GUI. The java application was able to perform CRUD operations, and the driver class was used to handle the database connection.
- **Grep App:** This project will implement the same functionality as the grep bash command from Linux. The command will match patterns/lines in files recursively. The pattern that is inserted by user has to be Java REGEX. The application is packaged using Maven, and Dockerized. It can be ran by JAR or by the docker container.

**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

**Electron Modelling** [GitHub]: Programmed a simulation of electrons interacting with each other in a closed environment with a population of 3000. This is then used to plot the Boltzmann distribution of each electron. This is done using MATLAB

**Capstone Project** [GitHub]: Collaborated and created a web application with 2 other team members. This site allows users to host URL for their indie games. Registered users will be able to like and dislike the game posted. The application has an admin page, that allows to ban/delete/approve URL's that have been posted by the user.

## Professional Experiences

**Software Developer, Jarvis (2022-present):** Developing and implementing projects using software and frameworks are currently used in the industry such as Java, GIT, SpringBoot, docker, PSQL, bash script, etc. Projects are implemented with agile framework in mind.

**Full Stack Developer, Cancard INC (2022- April to June):** Worked on normalizing the database and reducing data redundancy of Cancard's software as a service application. Contributed to the Model View Controller pattern for springboot.

## Education

**Carleton University (2015-2019),** Bachelor of Engineering, Electrical Engineering

**Seneca College (2020-2021),** Post-Graduate Certificate, Database Application Development

## Miscellaneous

- Basketball player
- Competitive gaming