

# Farnaz Towhidi . Jarvis Consulting

I am Farnaz, a new hire at Jarvis Consulting Group working as a technical consultant. I finished my master and PHD in the university Technology Malaysia in the computer science (Information Security) with the GPA of 3.65. I have been a Full stack developer with experience in designing and developing user interface, testing, debugging, implementing components in amazing companies like IBM, Canadian Institute of Cyber Security and Biossentials. I always feel passionate about increasing my technical knowledge, thus I recently finished the the software immersive in General Assembly of Toronto, with GPA of 3.9. There is no end to my education, so I am still learning.

## Skills

**Proficient:** Html/CSS, JavaScript, Agile/Scrum, React, MongoDB, Java, SQL, Linux/Bash, MVC Pattern

**Competent:** MERN Infrastructure, Oath Authentication, REST APIs, Angular, Deploy GitHub,Heroku, Git, Git Hub

**Familiar:** Docker, TestRail, Selenium, Jira, .Net

## Jarvis Projects

Project source code: [https://github.com/Jarvis-Consulting-Group/jarvis\\_data\\_eng-FarnazTowhidi](https://github.com/Jarvis-Consulting-Group/jarvis_data_eng-FarnazTowhidi)

**Cluster Monitor** [GitHub]: The project will be use by Jarvis Linux Cluster administrator (LCA) to manage 10 server node that connect to each other. They want project to record hardware spec of each server, and real time resource usage, so the plan is to design one MVP for them. The project implements by bash script and postgresql, Linux command line, docker and IDE. Manual testing done, by running the bash script and check the related tables to see if the data created properly.

**RDBMS and SQL** [GitHub]: Created SQL queries to retrieve data from multiple tables. A PostgreSQL instance using docker was utilized to load sample data and test the results of the queries. Git was used as version control for the project.

**JDBC Apps** [GitHub]: Developed proficiency in data access patterns and JDBC by performing data manipulation tasks on the hplussport PostgreSQL database. Utilized Dbeaver and IntelliJ Idea for database management, Docker for containerization, PostgreSQL and PSQL CLI tool for database creation and manipulation, JDBC for data access, and Maven for build automation.

**Grep App** [GitHub]: Similar to the egrep tool this project aims to read all the files in the provided directory and tries to search for the regex expression that has to be searched in the program. The project uses Java, Lambda, Steams and Regular expression for designing and attaining the outputs.

**Twitter CRUD App** [GitHub]: Created a Java CRUD application that uses Twitter's REST API v2 to create and manage tweets. The user can create tweets, or delete a list of tweets by ID, all from via CLI. The app sends requests to Twitter's API through HTTP requests in the form of JSON messages, authenticated with OAuth. The architecture used follows the MVC design pattern. The build system used was Maven, and deployment was done through Docker.

## Highlighted Projects

**McDonald's Application** [GitHub]: Solo, 1 week project for DRY REST API of fully-functional styled inventory application. Technologies used, Express/Node and MongoDB, Python.

**Chatterbox** [GitHub]: Group of 4 developers creates a MERN stack application, a responsive single page application. Uploader with the use of AWS S3 buckets and the npm package, "aws-sdk". Technologies used, MongoDB, Express, React, Socket.io, Amazon Web Services.

**Track Fit** [GitHub]: Group of 5 developers creates a full crud application in 1 week, for recording the user's daily fitness log. Technologies used, HTML, CSS, Python, Django, PostgreSQL.

**War Card Game** [GitHub]: Solo, 1 week project for the browser base game, using application state, manipulating DOM and includes shuffling and win/loss logic. Technologies used, HTML, CSS and JavaScript.

## Professional Experiences

**Technical Consultant, Jarvis (2023-present):** Developed multiple software applications and worked on projects using Java, SQL, Linux Bash, Docker and more. Agile/Scrum was used to collaborate with team and produce minimum viable products. Git was utilized for version control on projects.

**Quality Assurance, IBM ,Fredericton (2020-2020):** Part of security intelligence team of 10 working on QRadar that ensured the testing algorithms and probability threat analysis was maintained at peak efficiency

**Full Stack Developer, Canadian Institute of Cybersecurity, Fredericton (2019-2019):** Designed and built website for International Conference on Privacy, Security and Trust, including information on events, workshops, organizers.

**Full Stack Developer, Biossentials, Kuala Lumpur (2009-2014):** Worked closely with a designer to create and deploy a new comprehensive layout that allowed the customers to easily connect with vital information. Improved the quality of company search engine optimization performance. Overhauled the entire structure of the website, create keywords contents, change the naming of files and folder, recommended weekly content, deleting flash and other technologies to gain it

## Education

**General Assembly (2022-2022),** Software Engineering Immersive, Faculty of Computing - GPA: 3.9/4.0

**Universiti Teknologi Malaysia (2010-2015),** PHD of Computer Science, Faculty of Computing - This thesis creates a new method for dictionary of cued recall based graphical password by combination of top down and bottom visual attention. This approach leads to powerful automated dictionary attack that can guess up to 70% of some passwords.

**Universiti Teknologi Malaysia (2008-2010),** Master of Computer Science (Information Security), Faculty of Computing - GPA: 3.65/4.0 - This thesis is an Enhancement on Passface Graphical Password Authentication.

## Miscellaneous

- Computer Hacking Forensics Investigator (CHFI), EC-Council
- Certified Ethical Hacker (CEH), EC-Council
- Cloud Core, IBM
- Design and User Experience (D&UX), IBM
- Introduction to Cloud, IBM
- Enterprise Design Thinking Practitioner, IBM
- Tech-ReEntry, IBM
- Marketing your own Business on Internet, University of Waterloo
- Effective Selling, University of Waterloo