Fatemeh Khaksar . Jarvis Consulting

At Payame Noor University, I finished my undergraduate degree in computer engineering in 2011. Since September 2011 to the present, I have been working as a computer support in an educational institution. I had the opportunity to deal with a variety of people during my professional career to support them in registering for training courses and also educate junior pupils, which enabled me to improve my communication skills.I've been in responsible for supporting the installation or upgrade of roughly 30 PCs as needed. Occasionally, creating some type of brochure for special occasions has helped me become familiar with Adobe Photoshop.

Skills

Proficient: RDBMS/SQL, Linux/Bash, Cloud Platform, Agile/Scrum, Git, Docker

Competent: Python, Business Accounting, Microsoft Office, Adobe Photoshop, Pycharm

Familiar: Django, Machine Learning, Wordpress, Html/Css, Designing

Jarvis Projects

Project source code: https://github.com/Jarvis-Consulting-Group/jarvis_data_eng-Fatemeh-khaksar

Monitoring Linux Clustering [GitHub]: I created a Linux cluster monitoring agent. Create a PostgreSQL database using docker to store persistent data. To gather hardware information and resource utilization for each computer in the cluster, I created bash scripts. I then automated the gathering of data on resource utilization using Crontab. deploying the MVP using Git and Docker and testing it with many queries on a single machine.

Core Java Apps [GitHub]:

- JDBC App: A common application programming interface (API) called Java Database Connectivity (JDBC) gives Java programs access to database management systems. Maven was what I used to manage packages and dependencies. After running the Docker container, the PostgreSQL database stores data in the database instance. I implemented a data access object(DAO) that CRUD on the object.
- Grep App: A software called Java Grep was created to search a file for lines that match a given pattern and then outputs those lines to a text file. The software receives a root directory, filters recursively through any subfolders and files, then outputs the results. read and written into files using BufferedReader, FileReader, BufferedWriter, and FileWriter. Maven was used to handling dependencies and build the application, which was then packaged with Docker and submitted to Docker Hub.

Python Data Analytics [GitHub]: The project is based on the London Gift Shop (LGS), a gift shop. In order to improve sales and marketing strategies, the marketing team wants to enhance the technology. As a Data engineer, it is my responsibility to assist LGS by examining the purchase behaviors of its customers. By using analytics, the LGS marketing team will create focused marketing plans (such as email, events, target specials, etc.) to draw in both current and potential consumers. I used Python, Jupyter Notebook, Pandas Dataframe, Numpy, data warehousing, and data analytics to address all business requirements.

Hadoop [GitHub]: This project's main goal is to investigate and assess Apache Hive's capabilities inside the Hadoop environment as a tool for tackling and resolving challenging business issues. We seek to effectively handle massive amounts of data and extract valuable information by utilising the power of Hadoop clusters and distributed technology. Learnings and Assessments We have studied and assessed a number of core Hadoop components during the course of this project, including MapReduce, HDFS, and YARN. Using Dataproc, we set up a Hadoop cluster on the Google Cloud Platform (GCP), which allowed us to manage and extend our resources as necessary. To tackle particular business issues, we used Apache Hive and the Zeppelin Notebook, practicing various HiveQL queries and evaluating the effectiveness of various approaches.

Spark [GitHub]: Not Started

Cloud/DevOps [GitHub]: Not Started

Highlighted Projects

Simple University management: It was a final project of my Python training course.The project had a list of students,courses and teachers. Every student must choose how many classes they will take each semester, and every teacher

may teach one or more courses. Teachers should then assign grades to each student. The average of the student grades was eventually calculated. The student, courses, and teacher tables were created using the SQ

Professional Experiences

Data Engineer, Jarvis (FEB 2023-present): Creating and testing a variety of apps using technologies including Java, Linux, and Docker. I had the chance to use the Agile process to communicate with team members. taking part in daily scrum meetings using Agile methodology.

Computer Systems Specialist, Volta Institution (Sep 2011-current): Upgrading systems, when necessary, which includes installing a new version of the windows, installing additional memory (RAM), replacing hard drive with SSD and replacing graphic cards. Resolving system and program issues such as when the internet is disconnected, specific software doesn't work for students in the class and when the quality sound of the recorder is low. Analyze and support requests for computer system services. Installing and updating hardware such as Printer, Scanner, Projector and software such as Antivirus, Zoom, Movie player, special software like VSCode, Adobe Photoshop, AutoCAD for training courses. Designing brochures using Adobe Photoshop

Tutor, Volta Institution (Sep 2011-current): Teaching junior students the basics of Microsoft Office

Part-time Assistant, Payame Noor University (2009-2010): Preparing charts and diagrams to assist in problem analysis,Designing brochures and banners for the festivalsDesigning brochures and banners for the festivals,Supporting the university portal which includes managing to upload specific information on the portal, working with WordPress and HTML

Education

Payame Noor University (2006-2011), Bachelor Software Engineering, Computer Engineering - IELTS Academic 6.5 - Duolingo 105 - IELTS GENERAL 6.5

Miscellaneous

- Adobe Photoshop, Khane Kargar Esfahan, April 2013
- Business Accounting, Khane Kargar Esfahan, June 2013
- Corel Draw, Khane Kargar Esfahan, November 2013
- Python , Mehregan Institution,2022
- Machine learning, Mehregan Institution, 2022
- IELTS Academic 6.5
- Duolingo 105
- IELTS GENERAL 6.5
- Volleyball player
- Oil painting, handcraft leather bags, Reading books
- Volunteer Moderator of English Language Club