ReZa QaVi

Software Data Engineer

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"I do something, You do something, now lets do something more, but together."

Summary

Master's in Computer Engineering specializing in Software Engineering. Experienced in data engineering and a little hands-on in Python, NodeJS, Golang and any language if I have one week to learn it :) . A person who never shies away from challenges or change. Currently as a software engineer with a smile?.

Education

Shahid Beheshti University

Tehran, Iran

Master of Science in COMPUTER Engineering (SOFTWARE Engineering) *2023 - Present*

- GPA: 17.5/20

University of Tehran

Tehran, Iran

Bachelor of Science in COMPUTER Engineering (SOFTWARE Engineering) *2018 - 2023*

- Last two academic years' overall GPA: 18.26/20 (Total GPA: 16.89/20)

Shahid Beheshti High School,under the supervision of NODET (National Organization for Developing Exceptional Talents)

Qaen, Iran

Diploma in Mathematics AND Physics *2014-2018*

- GPA: 19.98/20

Work Experience

TAPSI

Tehran, Iran

Software Engineer *Dec 2023 - Present*

- Overseeing the enhancement and upkeep of micro-services aimed at incentivizing and engaging drivers, ensuring optimal performance and user satisfaction.
- Optimizing system architecture for scalability, flexibility, and reliability.
- Involve in design and implementation of a SmartRebate project(write in Golang), witch include AI model for prediction, and use this service in TAPSI main flow for rebating drivers
- Involve in design and implement Driver Loyalty Club service, witch is responsible for provide infrastructure for scoring, and tiering users, and provide multiple rewards for each tier(on-going project)
- Actively contributing to problem-solving and solution implementation in various financial projects, ensuring financial stability and success.
- Refactored legacy code-base to improve maintainability and scalability, ensuring smooth operation and reducing technical debt.

TAPSI

Tehran, Iran

Data Engineer *June 2022 - Dec 2023*

- Tapsi is an online cab e-hailing and ride-sharing platform. Having hundreds of thousands of rides per day, its infrastructure has huge performance, network, and availability challenges.
- Conducting a needs assessment and implementing strategic planning for the enhancement of JupyterHUB services. The goal is to optimize speed, scalability, and overall performance to deliver an improved experience for our data analysis and AI teams.
- Participate in the design and implementation of a new Change Data Capture (CDC) sync pipeline.
- Add more visibility, add monitoring on Apache Kafka and Hadoop Distributed File System (HDFS)
- Implementing an automated process for cleaning up files in both the local file system and Hadoop Distributed File System (HDFS). The service will delete files that are no longer needed based on a specified retention time.
- Exploring and designing a comprehensive business-focused pipeline to automate various tasks.
- Upgrading the Apache Zeppelin, Apache Spark cluster, Apache Airflow
- Enhance data security by implementing Apache Ranger for resource-level data authorization.
- Develop a read/write utility for improved user experience with our data lake storage (HDFS), also ensuring compatibility with our object storage (Ceph cluster). This utility will enable seamless interaction across both storage systems.

University of Tehran

Tehran, Iran

Bachelor Project *Feb 2022 - Aug 2022*

- Developing a stock market prediction platform that utilizes historical data from the crypto market, with a specific emphasis on extracting features and predict future market trends.(Python, Django)

University Selected Projects

Fall 2018	**Moodle - Introduction to Computing Systems and Programming**, Implemented a system for managing and manipulating courses, students, and grades Developed using linked list, memory allocation, and structs in C	*C*
Spring 2019	**Netflix - Advanced Programming**, Developed an OOP application like Netflix with C++ Implemented a simple UI using HTML and CSS	*C++, HTML, CSS*
Fall 2020	**Operating System Projects**, Developed a client-server application using socket programming via UDP and TCP protocol Developed a multi-process application and used named and unnamed pipes for IPC Developed a multi-thread program using the Pthread library for calculating an AI model accuracy	*C++*
Spring 2021	**Artificial Intelligence Projects**, Implemented several conscious and unconscious search algorithms for solving the snake and seed problem Implemented a genetic algorithm for designing a logic circuit with a given truth table Implemented a Naive Bayes Classifier for classifying an online shop's comments Implemented several simple machine learning regressions using scikit-learn to predict house prices Implemented a neural network for COVID-19 diagnosis using CT scan images of lungs.	*Python*
Spring 2021	**Computer Network Projects**, Developed a simple FTP-server application using socket programming Implemented a simple version of Ethernet switch Implemented a simple version of a router for sending multicast messages	*C++*
Spring 2021	**Bolbolestan - Internet Engineering**, A unit selection system web application like "Golestan" with MVC architecture Back-end developed using Spring and MySQL Front-end developed using ReactJS Application deployed using Docker and Kubernetes	*Spring,MYSQL, ReactJS,Docker*
Spring 2022	**Computer Networks Security**, Implemented both encryption and decryption modules for A5-1 stream cipher using Python	*Python*

Skills

Programming, Python, Go, JavaScript, Bash, NodeJS, Kotlin (intermediate) *TAPSI*

Technologies, K8s, Git, Linux, Docker, Spring, SQL, Rest API, Spark, Hadoop, Airflow

Soft Skills, Creative, Motivated, Communicative, Hard-working, Organized, Introvert

Others, Object-Oriented Programming, Software Development Methodologies, Agile, Multi-Thread Programming, Socket Programming, Big Data Proccessing, ETL