

Siqi Yang . Jarvis Consulting

I recently graduated from the University of Toronto St. George with a Specialist in Computer Science and a minor in mathematics. Through 4 years' studies, I gained plenty of valuable experiences about computer science. During the University, I completed several front end and back end projects. These experiences helped me become a team-oriented, detail-oriented, responsible person. I'm passionate about learning new technology and always looking for new challenges. Currently, I am working for Jarvis company and mainly responsible for building several big data-related projects including Java, SQL, Springboot. Also, I'm responsible for performing the scrum methodology to ensure the success of the projects by fulfilling the requirements. During leisure, I enjoy playing basketball and team video games. It helps me develop solid communication skills and a team-oriented personality.

Skills

Proficient: Java, Linux/Bash, RDBMS/SQL, Agile/Scrum, Git, JavaScript, React, Hadoop, HTML, SpringBoot

Competent: C, Node.js, Docker, MS Office, CSS

Familiar: Angular, MATLAB, Verilog, Python, Postman

Jarvis Projects

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

Cluster Monitor [GitHub]: Developed an internal tool that monitors the cluster resources such as hardware information, and some usage data every one minute for each network node that is connected by a switch. Used two bash-scripts to collect the information from each host and store the data in the Database. Utilized the docker container to provision the database.

Core Java Apps [GitHub]:

- **Twitter App:** Implemented an application which uses Twitter REST API. This Java application allows users to create, delete, and find a specific tweet. It uses MVC(Model-view-controller) design pattern to manage the code structure and Spring framework to manage the dependency relationship.
- **JDBC App:** Design an application which uses JDBC to build a connection between Java and Postgres SQL database. It implements CRUD(create, read, update, delete) operations by using the Data Access Object(DAO) design pattern.
- **Grep App:** Simulated the grep command functionality using Java. It uses the lambda function and stream API from Java to optimize the final project performance.

Springboot App [GitHub]: Developed an online stock trading simulation REST API that supports CRUD operations on trader, account, security orders, and quotes. Front-end developers can utilize this REST API and combine it with the front-end application to achieve a complete online stock trading simulate application for various platforms. The application can be consumed by using Swagger UI or postman. This application is a microservice which is implemented by Java along with SpringBoot. It utilizes the MVC design pattern and Three-Tier architecture to manage the overall code structure. It retrieves real market data by using IEX cloud API and stores the market data into the PostgreSQL database to persist the data. It also makes use of the Mockito framework and integration test to ensure it's quality.

Hadoop [GitHub]: Implemented a project which is mainly about helping data analytics team to process data using Apache Hadoop and evaluate different tools and components of Hadoop. It evaluated the main components of Hadoop including including MapReduce, HDFS, and YARN. The Hadoop cluster is provisioned by Google Cloud Platform. It solved some business problems by using Apache Hive and using Zeppelin Notebook as the web-based notebook to record the HiveQL queries and evaluate the output.

Spark [GitHub]: Not started

Cloud/DevOps [GitHub]: In progress

Highlighted Projects

Course Group Matching Platform [GitHub]: Developed a Web based Course Group Matching Application for University students. Used React.js as the front-end framework. Utilized Express.js as the back-end component and together with the MongoDB database. Capable of User authentication, matching and available for admin access, etc. Deployed on Heroku.

Computer Component Review Website [GitHub]: Implemented a Web based computer component review and communication system. Designed HTML front end pages with CSS and Vanilla JavaScript. Used Node.js as back-end tool and communicated with MongoDB. Final product is Capable of User authentication, sharing reviews, etc.

Student-Teacher Communication Platform: Accomplished a Web-based student-teacher online communication platform for Action Against Hunger with a team of 7. Used AngularJS as the front-end framework. Interacted data with Firebase and Node.js as back end program. Used Scrum as meeting methodology and cooperated product development process with client. Capable of User identification, communication, etc.

Inventory Information System: Designed a system for storing and changing the information about the inventory for a grocery store based on Java. Used various design patterns included Factory design pattern, Model-View-Controller design pattern, Dependency Injection design pattern, etc. Created a User interface by using GUI. The design decisions obeyed the SOLID principle and used UML to handle the structure of the project.

Professional Experiences

Software Developer, Jarvis (2020-present): Worked on several Big Data related projects that include the Linux/Bash, Java, SpringBoot, Cloud develop, and Hadoop/Spark in an Agile team as a junior developer. Utilized the Agile/Scrum collaboration methodology, Git, and Git flow to ensure the success of the development process. Used Integration and Unit test techniques to ensure the quality of the final projects.

Education

University of Toronto (2015-2020), Honours Bachelor of Art and Sciences, Specialist in Computer Science and Minor in Mathematics

Miscellaneous

- Basketball player
- Team video game player