Derek Song. Jarvis Consulting

My name is Derek Song, and I am currently working with Jarvis as a data engineer. My role is to utilize Java and Scala programming languages to build applications. I am proficient in Java, Linux, Bash, SQL, RDBMS, JDBC and DAO design pattern. Before that, I have achieved a Master's Degree and Bachelor's Degree in Engineering, and I have strong programming fundamentals and learning skills. Besides, I worked in TS Tech Canada Inc. for three years, where I built very good communication skills and achieved hands-on experience of working with team and contractors. I really enjoyed my work with Jarvis, and I would love to dig much deeper into this area.

Skills

Proficient: Java, Maven, Bash, SQL, Agile/Scrum, Docker, RDBMS, JDBC, DAO, Git/GitHub, Microservice, Postman

Competent: Spring and SpringBoot framework, Oracle

Familiar:: Spark, Scala, Hive, Kafka, Nifi

Development Projects

Project source code: https://github.com/jarviscanada/jarvis data eng derek

- Cluster Monitor: This project requires to develop an application to collect server hardware specifications and monitor node resource usages (such as CPU and Memory) in real time, and store data in PostgreSQL database for Linux Cluster Administration Team.
- Core Java Apps: There are three apps in this project, and they are Grep, JDBC and TwitterCLI. Grep project requires to build an app to search for a text pattern recursively in a given directory, and output matched lines to a file. JDBC project utilizes JDBC to connect Java application and PostgreSql database. TwitterCLI application can create, read and delete tweets from CLI. MVC architecture is invoked to split the application into multiple layers.
- SpringBoot App: This app allows users to trade stocks on IEX Cloud. SpringBoot app consists of three tiers based on MVC architecutre: Client tier, Application tier and Database tier. Client tier allows users to use HTTP clients to consume the REST, such as postman, curl, or Java. Application tier is a SpringBoot Java program to process data only. Database tier ensures that application data is stored in a database instance to avoid data loss.
- Cloud & DevOps: Not started
- Hadoop: Not started Spark/Scala: Not started

Professional Experiences

Software Developer, Jarvis, Toronto (2020-Present):

- Completed Linux & SQL and Core Java Apps, and currently work on SpringBoot App, achieved hands-on experience
 of software development
- Enhance communication skills and ensure work efficiency of WFH

Engineer, TS Tech Canada Inc., Newmarket (2017-2020):

- Developed applications, optimized performance and wrote documents
- planned and coordinated projects, inspected installation and modification of automation system, and troubleshot equipment

Education & Academic Projects

Beijing Jiaotong University (2009-2011), Master of Electrical Engineering and Automation

- Ultrasound flaw detector project: designed the software of ultrasound flaw detector, which was used to detect flaws and cracks on railway. The software controlled the detector to emit, receive and process ultrasound and displayed flaws on screen
- Patents Awarded: worked with research team to develop plasma technology to process wastewater and air pollutant, and successfully awarded two patents

Beijing Jiaotong University (2005-2009), Bachelor of Electrical Engineering and Automation

Certificates & Awards & Activities

• Volunteer, Habitat	for Humanity (2013):	worked in Restore to s	sort out donations and re	e-sell products to customers