Abdul Samad Sethi . Jarvis Consulting

I am a recent graduate from Ryerson University, where I received my Bachelor of Engineering, majoring in Computer Engineering. Throughout my education at Ryerson University, I developed strong analytical, problem-solving and coding skills. Furthermore, I have a strong fundamental understanding of Data Structures and Algorithms. I began to take an interest in Software and Data engineering in my final year at Ryerson University and quickly discovered that it includes all aspects of software development that I am passionate about. I developed multiple projects at Ryerson, most notably an AI Personal Trainer that collected data in real-time and gave the user feedback on their workout routine. I believe myself to be a hardworking and highly motivated individual that enjoys being challenged when engaging with projects that require me to learn new programming languages and development techniques. I believe that clear communication streams and increased transparency can help organizations build highly efficient, confident and successful teams capable of creating the desired products for the consumers. Ultimately, I feel that my strong academic background in Computer and Data Engineering will enable me to excel and have a meaningful contribution to your team.

Skills

Proficient: Java, Python, C, Linux/Bash, RDBMS/SQL, HTML, Git, MATLAB, Agile/Scrum, VHDL, Docker

Competent: Rest APIs, C++, CSS, JavaScript, OpenCV

Familiar: Ruby on Rails, Swift, AngularJS, Azure, TensorFlow

Jarvis Projects

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

Cluster Monitor [GitHub]: Implemented a tool using bash scripts that gathers data on hardware specifications of a network of Linux Machines. This application monitors their resource usage in real time, and stores the data to a PostgreSQL database maintained in a docker instance.

Core Java Apps [GitHub]:

- Twitter App: Developed a Twitter CLI application that implemented Maven, Mockito, JSON, Spring, JUnit, and the Twitter API to allow users to post, search and delete tweets from the command line. Performed agile testing creating and executing JUnit test scripts for the application, and deployed the application using Docker to DockerHub.
- JDBC App: Implemented an application to store customer and sales data for a sample enterprise for the purpose of exploring the JDBC library and common data persistence design patterns. This application was developed using Java with a PostgreSQL instance for data storage which was maintained within a docker container.
- Grep App: Developed an application that mirrors the Linux bash grep function. This application was developed using Java to search for a matching regex pattern in a directory.

Highlighted Projects

AI Personal Trainer [GitHub]: Designed an Python application where a user can follow along an exercise routine by a trainer on a video, and dynamically receive real-time feedback on quality of form as a score. Developed application's body tracking algorithm in Python using OpenCV and TensorFlow. Implemented neural networking and dynamic time warping to compute real-time user scoring metrics.

Peer-to-Peer Application: Developed a C application that allows files and media to be exchanged among connected peer networks. Implemented UDP and TCP connections with an index server and peer networks using sockets in C. Integrated functionalities allow the user to upload and delete files shared with other connected peer networks via the index server.

Music Database: Created a Music Database with SQLite that allowed the user to search for any information about an album, artist, or song through executed user queries. Translated the SQLite database into an XML schema allowing for better visualization of the user queries.

Professional Experiences

Software Developer, Jarvis (2021-present): Developed Data Engineering projects in Java while also using other technologies such as Maven, Docker, Git, PSQL, and REST APIs. Collaborated with a team in daily scrum meetings and bi-weekly sprint meetings to implement Agile development practices to help guide individual work flow.

Math Teaching Assistant (Co-op), St. Joseph Secondary School (2017): Responsible for assisting a secondary school teacher in delivering the grade 10 math curriculum to a class of 27 grade 10 students for over four months. Supported students by identifying their weaknesses and collaborating with the students to improve their mathematical skills resulting in successful completion of the course.

Education

Ryerson University (2017-2021), Bachelor of Engineering, Electrical and Computer Engineering - Dean's List (2020-2021)

Miscellaneous

- Rock Climbing/Bouldering