Khori Watson . Jarvis Consulting

Hello! My name is Khori Watson and I recently graduated from the University of Toronto with a Bachelor's degree in Computer Science and I am passionate about software development and engineering. Throughout my undergraduate career, I fell in love with frontend and full-stack development as it was where I could exercise my passion for design and crafting seamless, joyful, user experiences! In addition to my studies in Computer Science, I also pursued a double minor in Human Geography and Statistics.

Skills

Proficient: Javascript, Linux/Bash, RDBMS/SQL, Agile/Scrum, Git

Competent: Java, HTML, CSS, React, React Native

Familiar: Python, C, R, Verilog, NoSQL Databases

Jarvis Projects

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

Cluster Monitor [GitHub]: This project simulates a monitoring agent that gathers data about Linux machines linked together in a cluster. It centers on 3 separate bash scripts which collectively create and control the running of a Docker container made from a lightweight Postgres Docker image and parse hardware and resource usage information via a series of commands and construct SQL statements to insert into a shared database store on a Docker volume. The script is automated via a crontab job to continuously update the database with real-time usage data.

Core Java Apps [GitHub]:

- Twitter App: In progress.
- JDBC App: This was a simple application exploring the functionality of the Postgres JDBC driver when used to connect to a data store. It involved querying a simulated PostgreSQL database of order data to extract customer and order information as well as using transactions to ensure atomicity.
- Grep App: This project is a recreation of the 'grep' terminal command done in Java. It searches through all the files in a directory recursively and extracts any lines that match a user-provided regular expression and then save all those lines to a file. Two implementations of this project were written: one that leveraged pre-Java 8 features exclusively (standard Java Collecitons and File IO API) and another that introduce Java 8 features, including Java NIO, Paths, Streams, and Lambdas. The latter implementation was done to showcase how these new features (streams especially) allow us to bypass some of the limitations caused by heap sizes in the JVM.

Springboot App [GitHub]: Not Started

Python Data Analytics [GitHub]: Not Started

Hadoop [GitHub]: Not Started

Spark [GitHub]: Not Started

Cloud/DevOps [GitHub]: Not Started

Highlighted Projects

Community Improvement App: This app was designed as a way to let users quickly and easily flag broken or damaged infrastructure in their community to 311 in Toronto. It made use of geolocation data to simplify the process of communicating where maintenance crews needed to go to fix each issue. This application was built using React Native and Next.js and a more of a proof of concept and was not actually connected to the 311 API for the city of Toronto, but it did access hardware GPS iniformation to provide accurate geolocation data.

Professional Experiences

Software Developer, Jarvis (2020-present): Designed and implemented code to satisfy user requirements using Java, SQL, and Docker.

Assitant Help Desk Advisor, University of Toronto Libraries (2021): Provided virtual technical support services for a wide variety of systems at one of Canada's largest universities using powerful ticketing and time management tools to organize and resolve large volumes of daily tasks and requests.

Student Library Assistant, University of Toronto Libraries (2017-2020): Delivered excellent customer service in a fast- paced, front-line customer service position at the main information desk of one of the largest libraries in Canada.

Education

University of Toronto (2016-2021), Bachelor of Science, Department of Computer Science - President's Entrance Scholarship

Miscellaneous

- Casual Gamer
- Visual Artist