Danny To . Jarvis Consulting

Skills

Proficient: Java, Bash, SQL, Agile/Scrum

Competent: Python, Git, Object oriented design, Relational databases, REST APIs

Familiar: C++, Javascript, Perforce

Development Projects

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

- **Cluster Monitor**: Developed a monitoring agent to obtain hardware usage stats across a cluster of nodes. All data is automatically pulled by a bash script and inserted into a central PostgreSQL database. Also wrote some sample analytics queries.
- **Core Java Apps**:
  - Wrote a GREP-like Java app that searches for a regex match within all files in a given directory. Results are written to a specified output file. Utilizes Java 8 Stream APIs to read files.
  - Developed a simple app that can connect to a PostgreSQL database using JDBC. Enables users to perform CRUD operations on the database using the DAO pattern.
  - Developed a CLI app that interacts with Twitter's REST API by forming arguments into HTTP requests. Basic functionality includes posting, deleting, and looking up Tweets. Features dependency injection using Spring framework. Also wrote a number of integration and unit tests using both JUnit and Mockito.

- **SpringBoot App**: In progress
- **Cloud & DevOps**: Not started
- **Hadoop**: Not started
- **Spark/Scala**: Not started

Professional Experiences

Software Developer, Jarvis, Toronto (2020-Present): Refining development skills by working on projects that require the use of different technologies such as PostgreSQL, Java Stream APIs, REST APIs, and Spring framework. Participating in the Scrum to become familiar with development cycles and working in a professional team environment.

Software Engineering Intern, Tyco International, Toronto (2016-2016): Developed an automated test library using Python and Robot framework. Ran detailed regression testing in accordance with specified parameters, and communicated recurring issues to my team. Also helped train team members in the use of the new test library, and monitored their progress to ensure understanding.

Education & Academic Projects

University of Ontario Institute of Technology (2015-2019), Bachelor of Science (Honours), Computer Science

- **FlipFlop:** Reddit-like app developed on Android studio. Users can post, comment on posts, and vote. All post and user data was sent to a realtime database running on Google Firebase. Data relevant to the current user was stored locally using SQLite.

- **Wildfire Simulation:** A naive, 2D simulation of wildfire spread programmed in Python and realized using cellular automata. Also implements a 2D cave-generation algorithm to generate a mock forest for testing.