

Nikki Daly . Jarvis Consulting

Skills

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

Competent: Python, C, C++, Node.js, SAS

Familiar: React, Angular, Matlab

Development Projects

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

- **Cluster Monitor:** Implemented a set of bash scripts that gather data on hardware specifications of nodes within the linux cluster, monitor their resource usage in real time, and store the data to a PSQL database maintained in a docker instance.
- **Core Java Apps:** Developed a series of Java Applications: one which mimics the bash grep function, another which implements a series of DAO functions in a JDBC system, and a Twitter CLI app which leverages the Twitter API to post/search/delete tweets from the command line. The project utilized Maven for its dependency management and JUnit and Mockito for testing.
- **SpringBoot App:** Developed a SpringBoot trading application that simulates stock trading using a REST API. The application's architecture models a three-tiered microservice pattern and uses Spring boot along with Maven for its dependency management. The data is created from the app as well as pulled from the IEX Cloud and stored in a PSQL database. The application is dockerized with a container to run the app and another to handle the PSQL database server. It also uses Mockito and Junit for testing.
- **Cloud & DevOps:** Not started
- **Hadoop:** Not started
- **Spark/Scala:** Not started

Professional Experiences

Software Developer, Jarvis, Toronto (2020-Present): Implemented several projects gaining experience and exposure to a wide set of tools and technologies including Linux, SQL, core Java, SpringBoot, Cloud, Hadoop, and Spark/Scala.

Tutor, Paper, Montreal (2019-Present): Tutored multiple students between the ages of 10-18 in Math, Computer Science, and English through the company's online chat-based tutoring service, as well as edited essays through the online essay portal.

Technical Analyst Intern, Citibank Canada, Mississauga (2019-2019): Led the migration project to the new Jira environment for the Data and Regulation team leveraging the Jira REST API. Wrote SQL queries to collect and organize data to generate reports for business analysts.

Software Developer Intern, RockMass Technologies, Toronto (2018-2018): Collaborated with a cross-functional team to design software architecture of a mapping device for mining technicians. Designed and implemented Javascript-based UI for the mapping device using Flask web framework.

Software Developer Intern, ScribbleLive, Toronto (2017-2017): Developed new and existing features on the company's live-blogging product using primarily Javascript for the consumer-facing end, and React for the client-facing end. Worked on Agile-based scrum team, participating in bi-weekly sprints.

Software Developer Intern, ScribbleLive, Toronto (2016-2016): Tested new and existing features on the company's live-blogging product using primarily Javascript for the consumer-facing end. Worked on Agile-based scrum team, participating in bi-weekly sprints.

Education & Academic Projects

McGill University (2015-2020), Bachelor of Engineering, Computer Engineering

- **Fully Integrated T-Stick:** Improved the development process for an integrated digital musical instrument (DMI) by developing a C++ based program hosted on a Raspberry Pi 3B+ which integrates the routing of audio and control signals passed in from the user through a series of sensors embedded on the instrument.

- **Capture the Flag Robot:** Designed and built an autonomous robot using LeJOS (Java for LEGO Mindstorms) that could complete an obstacle course and play a game of capture the flag with another robot.

City University of Hong Kong (2018-2018), McGill Engineering Exchange Program, Computer Engineering