

Zachary Barlow . Jarvis Consulting

My name is Zachary Barlow and I graduated from the University of Toronto Scarborough campus with a degree in Statistics, specializing in Software Engineering, Machine learning, and Data Science. I have joined Jarvis Consulting as a Data Engineer/Software Developer in pursuit of shaping my future and working with top employers in our country. I am working through a variety of projects relating to the use of Java 8, Linux/Bash, Spring Boot, RDBMS, Maven, Docker, and more. I am an extremely eager and passionate individual looking for a position within an amazing team to show off my skills with and push not only my progress but their company further.

Skills

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

Competent: JavaScript, React, Django, NumPy, Docker, Excel, HTML5/CSS, Jupyter Notebook, Maven

Familiar: Pandas, TensorFlow, Express.js, Node.js, Google Cloud Platform, R, Computer Networking, Springboot

Jarvis Projects

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

Cluster Monitor [GitHub]: Developed a Linux clustering monitoring agent that can be used to manage and monitor nodes/server hardware specifications. Created a PostgreSQL instance from a docker container running a CentOS7 image and activated a crontab to run a bash script to collect the data every minute and insert it into the database. As well as creating a few SQL queries that the manager can use to check host failures on specific machines.

Core Java Apps [GitHub]:

- **Twitter App:** Developed a command-line interface using Java 8 to allow the user to create, read, and delete tweets using the Twitter API. Architected the application using the MVC design pattern and Java Spring framework. Tested the application using JUnit4 and Mockito to perform the unit and integration tests to ensure proper functionality and created a docker file to deploy an image to docker hub.
- **JDBC App:** Implemented a DAO in terms of a Customer and Orders and demonstrated how they are connected to DTOs and the abstraction layer. Using Maven, Java, Docker, and PostgreSQL for the RDBMS.
- **Grep App:** Implemented a copy cat Linux grep command in Java using two separate implementations and hosted it on Docker Hub. The two implementations are using strictly for loops and the other, updated for more performance was using Streams and Lambda functions.

Springboot App [GitHub]: Developed a Proof of Concept trading application that allows users to manage client profiles and accounts, monitor portfolio performance, and trade securities using Java8 and Springboot to implement the REST API coming from IEX Cloud to handle all the business and core logic of the application.

Python Data Analytics [GitHub]: Not Started

Hadoop [GitHub]: Not Started

Spark [GitHub]: Not Started

Cloud/DevOps [GitHub]: Not Started

Highlighted Projects

Bingo Web Application [GitHub]: Developed an online multiplayer bingo game using Socket.IO and Node.js for the rooms and connections and then React for the frontend where the game updates for every change to the game without refreshing.

Bookstore Inventory [GitHub]: Created a bookstore inventory system where I created an API and made database calls with Knex and made a dashboard with ReactJs where you can add, edit, and delete books, as well as receive notifications when a book is out of stock.

Professional Experiences

Software Developer, Jarvis Consulting (2021-present): Have learned and progressed through a variety of projects from Linux, to Java API tools. I have used a variety of tools such as Linux, Git, Java, Docker, RDBMS, and led a team of three using an Agile Scrum approach to daily meetings and ideologies.

Full Stack Software Developer Co-op, Public Services and Procurement Canada (Sept 2017 - Dec 2017): Developed and worked on the Public Accounts 2016-2017 version and improved efficiency on production by implemented methods for more edge cases in tables. I also updated server information and web services they use to new and brighter formatting.

Education

University of Toronto Scarborough (2016-2020), Bachelor of Science, Computer Science, Mathematics, and Statistics

Miscellaneous

- GCP Big Data and Machine Learning Fundamentals
- IBM Databases and SQL for Data Science
- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning
- Convolutional Neural Networks in TensorFlow