

Alishea Armand . Jarvis Consulting

I pursued a degree in Natural Science with a concentration in Chemistry at the University of Calgary. After that I decided to switch gears and got a diploma in Dance Education from the University of Surrey in London. After several years of teaching, I wanted to expand my knowledge and career and recieved a diploma in Object Oriented Software Development at the Southern Alberta Institute of Technology. It exposed me to a wide array of concepts, languages, and technologies, such as C#, Java, Python, and SQL, Visual Basic, JavaFX, Android, and MS SQL Server. I loved the variety inherent in programming and the constantly evolving nature of it. Most recently, I joined Jarvis as a Software Engineer where I completed industry relevant projects using Java, SQL, Docker, Linux, and more. As a former ballet dancer and teacher, I find the combination of creativity and technical aspects when solving problems to be wonderfully familiar and satisfying. Over the past 10+ years I have pursued various educational avenues and have realized that I love learning and expanding my knowledge, and what better career is there for constantly learning, evolving, and growing than computer programming?

Skills

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

Competent: Python, C#, HTML/CSS, Android apps, Validation/Regex

Familiar: Unit Testing, bootstrap, javascript, Web applications, Node.js

Jarvis Projects

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

Cluster Monitor [GitHub]: Designed a Linux monitoring agent that enables a user to monitor and store machine specific information. In order to gather and monitor hardware specification and usage data, this program has 2 bash scripts. The `host_info.sh` script gathers the host's hardware info once, while the `host_usage.sh` script monitors resource usage every minute using `crontab`. Both of these scripts automatically insert the data into a PostgreSQL database (`host_agent`). This program also includes some sql scripts that make some hypothetical business queries to better monitor cluster usage.

Core Java Apps [GitHub]:

- **JDBC App:** Implemented an app that connects to an RDBMS using JDBC and PostgreSQL. Through this app you can create, update, and delete a customer in the database, as well as find and sort a list of customers. It also allows you to find an order by ID and, using a stored procedure, get orders by customer ID. Docker and Maven were used in the development of this project.
- **Grep App:** Developed a Java app that mimics the function of the Linux `grep` app. It takes three arguments: the pattern to be searched for (regex), the root directory path (`rootPath`), and the output file name (`outFile`). It uses the given directory path to recursively search through the directory and all its subdirectories for any matches to the provided regular expression within any file found there. It then writes all lines that contain the pattern to the `outFile`. Maven was used to manage the project, and Docker was used to create and share the image.

Highlighted Projects

Website for Travel Agency: Created a prototype website using `html/CSS`, `bootstrap`, `php`, `node.js`, `C#/Visual Basic`, and `ASP.NET` for a travel agency that connected to a Microsoft SQL Server database. It listed both available packages and agencies/agents that were read from a database. Customers were able to fill out an order form which would result in the creation of a customer record and booking record in the database. The form data was sent to an `ASP.NET` page that verified the data and either re-displayed the form with appropriate error messages or created a customer record if all fields were valid. The website also included a customer sign in page that allowed customers to view and update their information (changes were reflected in database). Finally, customers could view a list of their travel packages, including a price breakdown of each package, and the total cost owing.

Travel Agency Agent GUI: There were two implementations of this project. The first was using `C#` and `Visual Basics` and the second used `Java` and `JavFX`: Designed an application that provided a Graphical User Interface for viewing and modifying data in a Microsoft SQL Server database using `C#` and `Visual Basic`. It allowed agents to add and edit travel packages, as well as select from a product list to add to the package. Agents were able to add and edit other tables in the database. All data was validated using regular expressions. The second implementation of the GUI allowed agents to view and modify data in the same database, but using `Java` and `JavaFX`. Users were able to add, modify, and delete customer rewards, rewards, and reward sponsors. All changes were refelcted in the database.

Travel Agency Web service: Developed a RESTful web service that takes a GET request from a webpage and pulls data from the database to send a response back. It was also able to take a PUT, POST, and DELETE request in order to update the database. The web service was able to take JSON requests and send the data back in the appropriate format. AJAX was used to communicate with the web service from a web page.

Travel Agency Android application: Designed an Android app that worked with the Travel Agency Web service project. It allowed potential clients to maintain and display their personal data from the Microsoft SQL Server database. The app was able to access the RESTful web service created previously and submitted requests to access and modify data. It was able to display, update, insert, and delete data from the database using the REST service endpoints.

Professional Experiences

Software Developer, Jarvis (2022-present): As a software developer at Jarvis I was responsible for building multiple projects (see linux/sql and core java projects above). I worked with multiple technologies such as Linux, Docker, PostgreSQL, Bash, Git, and Maven. Through those projects I furthered my knowledge of scripting, Java, Object Oriented Programming, and SQL. I gained experience working in an agile environment, participating in daily scrum meetings (including as a scrum leader), bi-weekly sprint retros, and using a scrum board.

Receptionist, Kayenna Spa (2021-2022): I managed multiple tasks at once, including scheduling and confirming appointments, communicating with clients via phone, email, or in person, and updating records. I was often responsible for resolving customer problems and complaints. I was also responsible for assessing and assigning new clients to the appropriate groomer. Being an effective communicator and cool under pressure was key for success.

Owner, walker, trainer, A Leashed Adventure (2020-2021): I managed day-to-day business operations, including accounting, scheduling, finance, marketing, and public relations. I needed to adapt training plans on the fly depending on the changing needs of clients while keeping timeline and desires in mind. I also educated clients on at-home methods to help them reach and maintain goals for long-term success.

Daycare and Sales staff, Urban Dog Market (2015-2020): I resolved any issues, improved operations, and provided exceptional service. Prioritizing the development and maintenance of courteous and effective working relationships among my peers and with customers. Over the course of my time with UDM, I participated in continuous improvement by generating suggestions and engaging in problem solving activities to support teamwork.

Instructor, Jeunesse Classique Ballet, International School of Ballet (2015-2021): I was responsible for evaluating and revising lesson plans and course content with student-centred learning in mind. It was vital that I communicated regularly and clearly with parents or guardians, as well as the artistic director about student progress. I often received positive feedback from both parents and students regarding classroom instruction and student learning success.

Education

Southern Alberta Institute of Technology (2021), Object Oriented Software Development certificate, technology

University of Calgary (2010-2014), Bachelor of Natural Science, Science

University of Surrey (London) (2014-2017), Dance Education, Arts

Miscellaneous

- Dog trainer
- Ballet Dancer and Instructor
- Saltwater aquariums: seahorses and mixed reef