

Amir Helali . Jarvis Consulting

Skilled and solution-driven full-stack developer with more than a year of experience. My time with the government of Ontario allowed me to develop my skills as a full-stack developer by updating an internal charity web application utilizing React based on the client's needs, and transforming a large old Powershell codebase into APIs for improved scalability and integration. My current experience at Jarvis has empowered me to deepen my understanding on backend design, implementation and testing, by developing a number of multi-layered Java applications. These professional experiences in addition to my academic background, have developed my critical thinking approach and adherence to good software engineering principles. As a result, I have been able to consistently create and deliver highly optimized, well-structured solutions. Java, .Net, REST APIs, RDBMS/SQL and React are my forte with a competency in Azure cloud services and Angular. My personal and professional experiences have made me a highly adaptable individual with excellent communication and time management skills. I thrive in collaborative environments or working independently under pressure. I am dedicated to continuously improve by learning new concepts and technologies and eager to showcase my abilities.

Skills

Proficient: Java, .Net, React, RDBMS/SQL, Linux/Bash, REST API, Docker, JUnit, NUnit, Agile/Scrum, Git/GitHub

Competent: Angular, Python, Azure, JavaScript, Node.js, Powershell, C++, Google Cloud Platform

Familiar: Spring, Kubernetes, Xamarin, TensorFlow, Microsoft Power Platform, Figma

Jarvis Projects

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

Cluster Monitor [GitHub]: Developed a linux cluster monitoring agent to collect and store important hardware specifications and resource usage data for each node. This solution enables administrators to make key decisions based on the collected data for resource management and planning. It was Developed using Feature Branch Workflow within Git to ensure encapsulation and tracking. Implemented bash scripts to automate data collection and storage. Setup PostgreSQL database as a docker container to ensure compatibility and data integrity. Configured a cron job to automate the execution of scripts for consistent data collection and storage.

Core Java Apps [GitHub]:

- **Grep App:** A Java application that emulates grep command-line utility, it allows for pattern searching within text files and storing the results in an output file. It was developed utilizing Java streams and functional programming for better memory efficiency when processing larger files. The tools and technologies used for the implementation were: Java, Maven, Docker, SLF4J, and IntelliJ Idea.
- **Stock Quote App (In Progress):** A multi-layered Java-based stock quote application that allows users to get recent stock quotes from the Alpha Vantage API and store it in a PSQL database. The users can buy stocks and compare different values for them to decide if they'd like to sell their shares to make profit. The application was developed using the DAO pattern and the JDBC API for CRUD operations. Unit and integration testing was done by utilizing JUnit and Mockito. The app will be Dockerized for better portability and consistency.

Highlighted Projects

Travel Companion: Developed a social media style web app for travellers to meet up with other fellow travellers and keep track of their activities during their adventures. Used Agile methodology to ensure sustainable development. Designed wireframes and mockups using Figma to provide a blueprint for the visual elements. Implemented a modern UI for profiles using React, CSS and Bootstrap to ensure responsiveness, consistency and maintainability. Created ERDs using Visual Paradigm for database design. Implemented APIs and middlewares using Node.js and Express to process data exchange between the client and the server. Implemented a Google Maps functionality using the Google Maps api. Built a CI/CD workflow using GitHub actions. This was a group capstone project during my studies which allowed me to master and showcase my skills as a full-stack developer, and gain experience in project management while collaborating with others.

Firewall Rules API: Transformed Powershell scripts in charge of creation, configuration and storage of firewall rules, into serverless REST APIs, using Azure Functions and .Net. The purpose of this project was for improved integration, scalability and maintainability. Implemented authentication using Azure AD to ensure security. Utilized various Azure App-Service APIs to perform CRUD operations. Utilized Entity Framework ORM for improved productivity, and NUnit

for testing. This was my main project during my co-op term at MPBSD and it allowed me to hone my skills as a backend developer in a real work environment and to learn about fundamental Azure cloud concepts. During this project, I gained real experience with Agile Methodology by participating in sprint plannings, daily scrums, sprint review and retrospective.

Professional Experiences

Full-stack Developer, Jarvis (Jul 2024-present): Participated in daily scrum meetings to ensure work items were on track without any issues. Developed a program for Linux cluster management following Agile principles, and utilizing Docker, bash scripts, PostgreSQL, Git/GitHub, and Cron. Deployed and developed optimized Java applications including a java based Grep application that emulates Grep command-line utility and a custom-made multi-layered Stock Quote application. Utilized Docker, Maven, SLF4J, PSQJ, JDBC, JUnit, Mockito, DAO pattern, IntelliJ Idea and Git/GitHub throughout the development life cycle of these Java projects.

Full-stack Developer(Co-op), Ministry of Public and Business Service Delivery (Jan 2023-Aug 2023): Participated in sprint planning, daily scrum, sprint retrospective, and presented my work in sprint review to get feedback from the clients. Transformed more than 5000 lines of Powershell scripts in charge of firewall rules to serverless REST APIs using Azure Functions and .Net. Optimized SQL queries using stored procedures, views, and triggers. Updated and maintained an internal charity web application's backend and frontend based on business needs using React and .Net. Collaborated on a client application's front-end to be AODA compliant using Angular.

Education

Seneca College (2019-2023), Honours Bachelor of Technology - Software Development, Software Design and Data Science - 4x annual Scholarship - 3x President's Honours List - GPA: 3.9/4.0

Miscellaneous

- Winner of the 4th annual Microsoft & OPS hackathon in the best increases efficiency, effectiveness, and speed of government operations category
- CPR & First-Aid certified
- Making video games in Unity & Unreal during my off time
- Snowboarding
- Soccer Player(goalkeeper)
- Classical Guitar Player
- Fan of Fantasy and Sci-fi books, movies, shows, and video games
- Traveling and learning about new cultures through their people, landmarks, and cuisines