Adham Elatris . Jarvis Consulting

Results-driven developer with deep expertise in both frontend and backend technologies, specializing in crafting innovative solutions that elevate team performance and drive business success. Proven ability to tackle complex challenges and deliver high-quality, scalable applications under tight deadlines. Adept at collaborating across teams to bring visionary ideas to life, with a focus on efficiency, precision, and long-term impact.

Skills

Proficient: Java, Linux/Bash, RDBMS/SQL, Agile/Scrum, Git, JavaScript, Python, HTML, CSS, C#, Kotlin, Spring Boot, Docker, Rest API, Test-driven development

Competent: ASP.net, Vue.js, PHP, Unity game development, Django, Angular, Flutter, Bootstrap, PySpark, Databricks, Spark, COBOL

Familiar: C++, Figma, Raspberry Pi, Regex, jQuery, React, Laravel

Jarvis Projects

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

Cluster Monitor [GitHub]: Developed a Linux-based system for monitoring and managing hardware resources across multiple Linux hosts, collecting hardware specifications and usage metrics. Data is stored in a PostgreSQL database for analysis via SQL queries. The system is automated with Bash scripting, utilizes Regex for data filtering, and is containerized with Docker. Crontab schedules periodic data collection, while Git handles version control. Designed for modularity, scalability, and maintainability.

Core Java Apps [GitHub]:

- JDBC App: Developed a Java application leveraging JDBC to perform CRUD operations on a PostgreSQL database. Designed DAOs for modular and efficient data access, used Maven for dependency and build management, and employed Docker to simplify setup and deployment. Performed comprehensive testing to ensure transaction accuracy, stability, and reliability.

- Grep App: Developed a fast and efficient tool for searching text in large files. Built with Java, it leverages functional programming principles to make the code more modular, readable, and maintainable. It uses regular expressions (Regex) for powerful pattern matching and applies streams and lambda expressions to process data efficiently. This makes it a great tool for anyone needing to search through text with precision and speed.

- Stock Quote App: Implemented a Stock Quote App, built with Java and a PostgreSQL database, that integrates with the Alpha Vantage API to fetch real-time stock data. It uses OkHttpClient for efficient HTTP requests and Jackson for quick JSON deserialization. Designed with a robust architecture, the app ensures smooth and reliable data management, making it a powerful tool for tracking, practicing, and managing stock investments in a real-world-like environment, without any risks.

PySpark Fundamentals [GitHub]: In this project, I learned the fundamentals of PySpark and applied them through hands-on implementation. The focus was on building ETL pipelines using Spark DataFrames within the Databricks environment. The project involved reading data from multiple sources, applying transformations, and preparing it for downstream use. It demonstrates practical data processing workflows using PySpark, with an emphasis on efficient querying and manipulation at scale.

Spark Advanced [GitHub]: I implemented a retail data pipeline using PySpark to process and transform data from a CSV file. The project involved data cleaning, aggregation, and business analysis tasks such as invoice trends, monthly growth, active users, and RFM segmentation. Final insights were visualized with Matplotlib, demonstrating practical big data processing and analytics. This project deepened my understanding of Spark's capabilities and real-world applications.

React trading application [GitHub]: I developed a React-based trading dashboard that allows users to view, add, and manage trader accounts, as well as track daily stock quotes for companies like AAPL, TSLA, and GOOGL. The application features a responsive UI built with Ant Design and Font Awesome, and communicates with backend APIs using Axios. The Quotes page integrates with the Alpha Vantage API to fetch real-time stock data, displaying it in a structured table format. The project emphasizes modular design, efficient state management, and seamless user interaction, making it a solid foundation for a real-time trading interface.

Angular trading application [GitHub]: I built a trading dashboard using Angular 12 that allows users to view, add, and manage trader accounts, as well as perform deposit and withdrawal operations through modal dialogs. The UI is designed with Angular Material for a responsive and clean layout. A dedicated Quotes page integrates with the Alpha Vantage API to fetch and display real-time daily stock quotes for companies like AAPL, TSLA, and GOOGL in a structured table format. The project emphasizes modular architecture, service-based API communication, and a consistent, intuitive user experience across components.

Mainframe Systems Development - COBOL [GitHub]: Developed a student registration system using COBOL on the mainframe, implementing key functionality for managing student records including data insertion, updates, deletions, and queries. Utilized VSAM files for efficient indexed data storage and converted sequential datasets into VSAM format. Designed modular programs to handle complex queries by student ID and inclusion date, as well as generate detailed reports grouped by course. Demonstrated strong proficiency in COBOL fundamentals such as file handling, procedural programming, and data validation within an enterprise batch processing environment.

Highlighted Projects

Progression - A programming learning application: Developed the comments feature for a coding education website used in multiple Quebec colleges, significantly improving communication between teachers and students. I used PHP Laravel, JavaScript, Vue.js and REST API.

Matchez moi: Led a team of four as SCRUM Master and developer for a dating website. The application won second-best of the semester and is showcased to incoming students. This project was built on Spring Boot, HTML (Thymeleaf), CSS and MariaDB database.

Typing Speed Game [GitHub]: Developed a responsive typing game designed to help improve keyboard reactivity by testing users' speed with random words. The game features customizable timers and difficulty settings, utilizing JavaScript, HTML, CSS, and a REST API.

LoueMonChar [GitHub]: LoueMonChar is a Rest API designed for a mobile app that enables users to rent or list their vehicles. It facilitates data sharing with a car rental service, allowing users to find cars for rent or earn money by renting out their own, based on duration and model.

Professional Experiences

Software Developer, Jarvis (2024-present): Implemented several key projects using Java, Spring Boot, PostgreSQL, and Bash scripting, gaining hands-on experience with diverse technologies. Enhanced both technical expertise and soft skills, strengthening problem-solving, collaboration, and software development abilities.

Full Stack Developer -Intern, GoConnexions (2024): Developed Django REST API features for a professional social media app, similar to LinkedIn, enabling user management, account creation, profile updates, and connection management, with JWT authentication and a MariaDB database. Designed and implemented the frontend using Flutter to build key features like login/registration, profile display and modification, and user/profile search.

Freelance developer, Groupe de Nettoyage (2023): Developed, designed, and deployed a website for the cleaning company, Groupe de Nettoyage, featuring services display, client requests, and candidate recruitment. Utilized JavaScript, HTML, CSS, and PHP to implement the site's functionality.

Education

Rosemont College (2020-2024), Computer Science, Web and Mobile Application Development - Second best project of the semester. - My project is showcased to new computer science students as an example of what they can achieve in the program.

Miscellaneous

- I love gaming, especially FPS and open-world story games. I'm a big fan of the Marvel Spider-Man PlayStation games and Red Dead Redemption 2.
- Soccer is one of my passions. I'm a big FC Barcelona supporter and occasionally play with friends.
- I'm a big fan of the Marvel Cinematic Universe. I love its storytelling, interconnected universe, and iconic characters that bring the comics to life on the big screen.