

Amjad Alwattar

Back-End Engineer

Passionate software engineering student with solid backend development skills cultivated through real-world corporate projects. Skilled in building reliable backend solutions suitable for various project needs. Currently diving into DevOps to blend software development with IT operations, aiming to optimize project workflows and team harmony. Always on the lookout for new challenges to broaden expertise and drive innovation at the crossroads of software engineering and DevOps.

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| Phone: +963 0982578083 | Nationality: Syrian | Birthdate: 16-12-2001 | GitLab: amgad226 |
| LinkedIn: Amjad Alwattar | Website: amjad.cloud | Languages: English-Intermediate, Arabic-Native | |

Education & Certifications:

Bachelor of Science in Informatics Technology, Major in Software Engineering

Damascus University – August. 2024

Recommendation Certificate

York British Academy [link](#) – August, 2024

Scientific Baccalaureate

I hold a scientific baccalaureate in 2019 with a GPA of 94.1

Technical Skills

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| <ul style="list-style-type: none">• Programming Languages: PHP, JavaScript and TypeScript• Operating systems Windows and Linux• Scripting Languages: Bash, PowerShell• Backend frameworks: Laravel, Node.js/Express and Nest-Js• Database: MySQL, Postgres, MogoDB and Redis• ORM & ODM Laravel ORM, Prisma and Mongoose• Programming Concepts: Proficient in OOP concepts Knowledge of AOP concepts Strong understanding design patterns. Knowledge of SOLID principles• Architectures MVC and HMVC architectures. Modular architecture Monorepo architecture Familiar with microservices architecture, with experience in designing services that communicate via HTTP, gRPC, and message brokers like Redis & Rabbit-mq. | <ul style="list-style-type: none">• Process Models: Plan Driven Models and Agile Methodologies• project management tools: Jira and ClickUp• Libraries: jQuery, socker.io, ThreeJs, apollo & puppeteer• Laravel Packages: Spatie, maatwebsite/excel• Realtime WebRTC, Web socket and pusher• Front-end: Html, CSS, Js• Web services and protocols REST and GraphQL• Services: Google Drive, Firebase, Gmail• Message Brokers Rabbit-mq & redis• Git: Familiar with Git branching strategies, including GitFlow.• CI-CD tools Gitlab actions, Github action | <ul style="list-style-type: none">• Web Server Administration: Nginx• Web Security: XSS, CSRF, SQL Injection, Directory Traversal, and other web vulnerability prevention techniques.• Docker• Ansible• Load Balancing• Database optimization• RESTful API development and maintenance• Cross-Team Collaboration• Unit test & Integration test |
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Work Experience

Backend Developer | Scandinavia Tech (Copax project) | Dubai, UAE – Damascus, Syria

august 2024 – present (Full Time, Onsite)

Contributed to the development of the Copax fleet management system, optimizing vehicle and driver performance through telematics technology.

Implemented key features including real-time GPS tracking, fuel management, and performance monitoring.

Developed and maintained backend services using **TypeScript**, **NestJS** in a **microservices architecture**.

Worked collaboratively in an agile environment using **ClickUp** for project management and task tracking.

Focused on building scalable and high-performance backend solutions to support the system's telematics and data analysis features. [link](#)

Backend Developer | Pharmaway company

March 2023 – February 2024 (Full Time, Onsite)

implemented and maintained robust backend solutions using **Laravel**.

Refactored old code to make it more efficient, resulting in a 50% improvement in response time and performance.

Implemented Laravel's caching features to reduce database load and speed up response times.

Designed and documented scalable RESTful APIs for seamless integration with front-end.

Implemented advanced database optimization techniques, such as indexing, query optimization, and migrations, to ensure efficient data handling, even with large datasets.

Writing well designed, testable, efficient code by using the best software development practices.

Scheduling and creating detailed task breakdowns on **ClickUp** Software task management platform.

Project Experience

Back-End projects

Graduation Project 2024

As a backend developer and DevOps lead, I contributed to a comprehensive platform for 'York-British-Academy' designed to centralize services for trainees and trainers, eliminating reliance on multiple platforms (centralizing services).

The platform featured:

- **Training Sessions:** Video conferencing, session settings, screen sharing, collaborative whiteboard, session recording, break management, online assignments with anti-fraud measures, and reporting system.
- **Sessions Management:** Viewing and managing recorded sessions, scheduling, session statistics and session reports.
- **Certificate Generator:** Creating and managing certificate templates using the system's editor, setting certificate templates for courses, generating secure and accurate certificates for trainees and trainers, and offering **NFT** certificates for authenticity and immutability.

My responsibilities include:

- Led the backend team, ensuring efficient services and conducting code reviews.
- Deploying the entire projects on a Windows server using Docker and GitLab CI/CD pipelines.
- Developed microservices and integrated communication between system versions.
- Dockerizing various components, including Node.js, Nest.js, Next.js, Laravel, and flutter web app and deploying them to the server.
- Built CI/CD pipelines for continuous integration and deployment.

Technologies Used: **WebRTC**, **Socket**, **Laravel**, **Nest.js**, **Redis**, **Nginx**, **MySQL**, **PostgreSQL**, **Prisma** & **Docker**. [link](#)

Source Safe 2023

'Source Safe' is a web-based system for managing collaborative file work with the following features:

- It prevents parallel modifications by categorizing files as "**free**" or "**in use**" for specific users.
- Access rights are controlled through file grouping.
- Key functionalities include check-in and check-out, allowing users to reserve, modify, and replace files.
- The system prevents concurrent reservations, ensuring exclusive access.
- Reporting features estimate booking and editing operations by file or user.

Source Safe **scales** to support up to 100 simultaneous users by implement **load balancing** with **Round Robin** strategy.

I primarily work on backend development, leveraging tools such as **TypeScript**, **Nest.js**, **Prisma**, **PostgreSQL**, **Redis**, **Nginx**, **Docker** and **Google Drive Storage** to ensure efficient performance. [link](#)

Dental Clinic Management 2023

I was part of the team that developed Back-End side Using **Nest.js**, **Prisma**, **GraphQL** & **Docker** for a Dental Clinic Management system that allows doctor to manage their patient profiles, reservations, appointments, lab orders and visualize medicines indications.

It has two platforms:

Desktop application for the doctor using **Flutter** desktop.

Web application for the patients using **React**. [repo](#)

Ticket Management System 2023 Freelance Project

Worked on a comprehensive ticket management system that includes multiple roles (admin, user, technician, manager) with the following features:

- Authentication and role base access control.
- Ticket Management: Developed functionalities for creating, updating, and managing tickets, with a comment feature for detailed ticket discussions.
- Role-Based Conversations: Enabled real-time conversations between admin and users, and between managers and users, to track ticket statuses and resolutions.

Technologies Used: **Node.js** with **Express** for the backend, **MongoDB** with **Mongoose ODM** for database management.

Frontend Development: Created a web interface using **HTML**, **CSS**, and **JavaScript**, with **Socket.io-client** to trigger and display all events in a simple and visually appealing manner. [web page simulation](#)

Application of tourism 2022

'**Trip Tips**' is a comprehensive tourism management app, empowering users to explore top destinations, discover top-rated hotels, restaurants, and attractions. and plan trips effortlessly. Our mobile platform facilitates browsing, commenting, issue reporting, favoriting, and booking accommodations securely with our private e-wallet.

Property owners have not listed yet can request inclusion via our web portal, gaining full management privileges. Administrators enjoy a centralized dashboard for overseeing all operations.

I leveraged **Laravel** to ensure robust functionality, implemented a **multi-role** and **permissions** system for admin, manager, supervisor, and user roles, facilitated efficient data management. [link](#)

Store Application 2021

"**X-Buyer**" which is an online store of a **flutter** app that sells products which are close to expiration and applies discounts on them.

Database of this app was developed by using **MySQL** and REST-API was created by using **Laravel** framework, for a university subject. [demo](#) [download](#)

Full stack projects

Chat Room App 2023

is a real-time chat application that enables users to enter their name and join a chat room where they can communicate with other users connected to the server. The application was built using **Node.js** and **Socket.IO** for the backend, and **HTML**, **CSS**, and **JavaScript** for the frontend. [repository](#)

Chat app 2022

"**TT**" is a chat application that supports a lot of features such as

- individual and group conversations.
- file, image, and audio records sharing.
- typing now.
- customizable themes.
- language options.
- notifications.

To develop **TT**, I used **Laravel API** and **MySQL** for the backend, as well as **HTML**, **CSS**, **JS** and **jQuery** for the frontend. I utilized **Pusher** services for real-time messaging, and integrates **Firebase** into the app for notifications. [link](#)

Games and Simulation Projects:

Soko Number Game 2023

"**Soko Number**" is a fresh and captivating puzzle game that challenges your intelligence and logical reasoning skills. Apart from the playing mode, the game can also be tackled with renowned algorithms such as **DFS**, **BFS**, **UCS**, and **A***. It is developed using **HTML**, **CSS**, and **JS**. [link](#)

Simulation of the motion of a satellite 2022

Developed a simulation project for the movement of the satellites around the Earth using **JavaScript** and **ThreeJs** library. [link](#)

Snake Nokia Game 2019

This project is a classic Snake game implemented in **C++**, inspired by the iconic Nokia mobile phone game. The game provides a nostalgic experience while incorporating modern programming practices [repo](#)