

# Abbas ATWI

## Software and Networks Engineer | DevOps Engineer

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## Summary

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Software and networks engineering student expected to graduate in summer 2025 (5th year student) with good experience in full stack development, cloud and DevOps fields. Seeking a challenging position or internship in any related field where I can showcase my skills and contribute to the growth of the organization.

## Experience

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### Software Engineer Intern – June/2024 to Present

#### Siren Analytics, Beirut, Lebanon

- Worked as a full stack engineer where I implemented and optimized Angular components and Spring Boot services, enhancing application performance and functionality in a collaborative development environment.
- Applied UI/UX designs from the designer to translate it to responsive Angular components, ensuring alignment with the provided design specifications and enhancing user experience.
- In Spring Boot, I worked on writing Flyway migration scripts for database version control, implementing JPA for entity mapping, and using DTOs to streamline data transfer. I developed custom mappers for converting between entities and DTOs, wrote native and JDBC queries for optimized data retrieval, and handled stored procedures and functions for complex operations where I optimized queries performances.
- Developed a comprehensive skill set in TypeScript and Angular, including advanced topics such as event handling, reactive forms for dynamic form management, and Angular Material for building modern, responsive user interfaces, routing, guards, and services. Gained expertise in managing component lifecycle hooks, view encapsulation, and creating custom directives. Utilized Angular's built-in translation capabilities for internationalization, implemented pipes for data transformation, and effectively managed asynchronous operations using observers and subscriptions with RxJS.
- Managed project tasks and tracked progress using Jira in a Scrum framework, and collaborated with the team on version control and code integration through GitHub.
- This internship not only enhanced my technical skills but also significantly developed my personal and soft skills. Engaging with stakeholders such as the Ministry of Environment, judges, and the Central Inspection General, conducting surveys for the project, and undergoing leadership training improved my communication, leadership, and public speaking abilities.

### AWS DevOps Engineer Intern – July/2023 to October/2023

#### Nebulane, Beirut, Lebanon

- Orchestrated the hosting of a simple web application on AWS infrastructure using Terraform, ensuring scalability and efficiency.
- Defined and configured essential infrastructure components on AWS to support the application's requirements.
- Implemented a CI/CD pipeline leveraging AWS CodePipeline to automate the deployment process, enhancing development efficiency.
- Developed an additional CI/CD solution utilizing Jenkins, encompassing the full setup process from server installation and configuration to Groovy-based Jenkinsfile creation, including requisite tools, plugins, job configurations, and security measures.
- Integrated a Content Delivery Network (CDN) to facilitate caching and optimize application performance.
- Managed IAM roles and policies to ensure secure access control and compliance with organizational standards.
- Employed modular Terraform code structure, organizing services into reusable modules for enhanced code cleanliness and maintainability.

## Education

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**Bachelor of Engineering in Computer and Communications - Software and Networks Engineer**

## Projects

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### 1. Task manager web application.

Designed and developed a Task Manager web application with RESTful APIs in Java and Spring boot integrating MongoDB for CRUD operations, comprehensive error handling, authentication, authorization, pagination, sorting, filtering, and testing with Postman.

### 2. E-Commerce project (NodeJs, MySQL)

- Handled user input using JavaScript and jQuery.
- Designed a scalable architecture with distinct layers (Presentation, Business, Data access) for improved error handling.
- Utilized Express framework for middleware routing.
- Implemented JWT authentication for enhanced security.
- Employed AJAX for creating asynchronous web pages.
- Ensured web page security using regular expressions (Regex) and placeholders (parametrized queries) to prevent SQL injection attacks.
- Applied dependency injection using annotations for loose coupling and improved modularity.
- Enhanced website functionality and security with session and cookie management.

### 3. Online Shop Web App(Spring MVC, MySQL)

- Developed domain-specific entity classes for seamless integration with Java Persistence API (JPA).
- Implemented Spring Data JPA for efficient database interaction, simplifying CRUD operations.
- Designed a service layer to encapsulate business logic, promoting clean separation between controllers and repositories.
- Created controllers to manage HTTP requests, process user input, and interact with the service layer.
- Integrated Thymeleaf as the template engine for dynamic HTML views, enhancing user interface.
- Implemented effective session management for user-specific information persistence.
- Applied dependency injection using annotations for loose coupling and improved modularity.
- Demonstrated proficiency in building scalable web applications with structured coding approach using Spring MVC, Thymeleaf, and JPA.

### 4. Ticket Reservation System Web App(ASP.NET, MSSQL)

- Developed an online football ticket reservation system using ASP.NET MVC and Web API with Entity Framework's code-first methodology for scalable and maintainable code.
- Integrated Google authentication for secure user login.
- Implemented jwt authentication and used sessions and cookies.
- Utilized third-party payment processing for transactions.
- Incorporated the Mapbox API for location services and designed responsive user interfaces with the Bootstrap framework to ensure a seamless experience across devices.

## Certification

CCNA1- CCNA2 , CCNA3.

DevOps Beginners to Advanced with Projects: Udemy

## Skills & Expertise

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- C++, Java, C, C#, JavaFX.
- Design Patterns.
- Node JS, express, ajax, jquery, javascript, typescript
- Spring boot, maven.
- Docker, Kubernetes, Jenkins.
- Object Oriented Programming.
- Data Structures.
- Linux OS.
- Machine Learning, python, tensorflow, opencv.
- Git Bash, PowerShell
- Angular, html, CSS, bootstrap.
- Database programming using oracle PL/SQL (procedures, functions, cursors, triggers...).
- Mysql, MSSQL, MongoDB (NoSQL) (Atlas, Compass).
- ASP.NET MVC, LINQ,
- Azure, AWS.
- Experience in github.
- Teamwork.
- Problem Solving
- Microsoft Office.
- Willingness to learn, time management

## Languages

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**Arabic:** Native | **English:** Fluent and proficient in reading and writing (level b2)

**French:** Bilingual (level b1.3).