Louay Abidi
louay.abidi@esprit.tn | Student

Summary

Highly motivated student with a strong interest in web application security and distributed systems. Demonstrated practical experience securing API gateways using Keycloak and OAuth 2.0 within a microservices architecture. Proficient in configuring Spring Boot applications for secure resource access and leveraging Postman for API testing.

Projects

* **Securing an API Gateway with Keycloak (2024-2025)**

    * Implemented OAuth 2.0 authentication and authorization for a microservices architecture using Keycloak as an identity provider.
    * Configured an API gateway to validate JWT tokens issued by Keycloak, ensuring secure access to downstream microservices.
    * Integrated Spring Boot Security dependencies (OAuth2 Resource Server, Security) within the gateway application.
    * Developed a custom `SecurityConfig` class for Spring Security configuration within a reactive web application context.
    * Utilized Postman to generate access tokens via the Keycloak client credentials grant type and test secured API endpoints.
    * Successfully protected access to a "Candidate" microservice, allowing access only with valid tokens.
    * Configured Keycloak realm settings, client settings (including client ID, secrets, and redirect URIs), and scopes.
    * Familiar with Spring Cloud Netflix Eureka for service discovery.

Technical Skills

* **Java:** Spring Boot, Spring WebFlux, Spring Security
* **OAuth 2.0:** Client Credentials Grant, JWT (JSON Web Token)
* **Keycloak:** Realm and Client Management, Authentication and Authorization
* **API Gateways:** Security Configuration, Microservice Integration
* **Postman:** API Testing, OAuth 2.0 flows
* **Spring Cloud:** Eureka (Service Discovery)
* **Maven:** Dependency Management
* **Git:** Version Control (implied - based on project description using pom.xml)

Education

Currently pursuing studies (details to be added upon completion)

Note: This resume is built based on the provided project details. It assumes familiarity with Git due to the mention of `pom.xml`. As you gain more skills and experience, remember to update your resume accordingly, including details about your education and other projects. Consider quantifying your achievements whenever possible (e.g., "Improved API response times by 15%").