

# Rguez Sayf Eddine

Full Stack Developer

Hay Al-maahad, Hammam Zriba

Zaghouan, Tunisia

+216 96 614 020

eddinesayf127@gmail.com

in sayf-eddine-909719365

saaayf

Other email: sayfeddine.rguez@esprit.tn

## Profile

Third-year engineering student specializing in Software Architecture Engineering at ESPRIT. Passionate about full stack development, software architecture, and technological innovation. Dynamic, autonomous, and highly adaptable.

## Technical Skills

- **Languages:** Java, TypeScript, Python, C++, C#, C, PHP
- **Frameworks:** Spring Boot, Angular, Symfony, Qt, JavaFX, .Net, Flutter
- **Web:** RESTful APIs, Keycloak, Bootstrap, SCSS
- **Machine Learning:** Scikit-learn, Flask
- **Desktop:** JavaFX, Qt (C++)
- **Games:** SDL (Ubuntu), Arduino
- **No-Code:** FlutterFlow
- **Databases:** JPA/Hibernate, SQL
- **Tools:** Git, Maven/Gradle, Agile, Clean Code, Design Patterns

## Professional Experience

- 2025 **Engineering Intern – Class Council Management System, ESPRIT TECH, Ariana, Tunisia**
  - Developed a full-stack mobile application for managing class councils and school schedules using Flutter (Material Design) and Spring Boot REST API backend
  - Integrated Keycloak for secure authentication and role-based user management (Administrator / Teacher) with JWT authentication
  - Designed and developed a complete schedule management system with calendar view (monthly/weekly), agenda items, and automatic conflict detection
  - Implemented a real-time notification system with automatic reminders (2 hours before a session, 15 minutes before an agenda item) to optimize appointment management
  - Created an interactive dashboard displaying dynamic statistics on classes, teachers, schedules, and users with real-time visualizations
- 2024 **Corporate Immersion Intern – HR Management Desktop Application, F3T, Fraternité Tunisienne de Traitement Thermique, Zaghouan, Tunisia**
  - Developed a desktop human resources management application using JavaFX for an industrial company
  - Implemented a complete HR management system including: employee management, daily time tracking, leave requests, monthly performance monitoring, and absence management
  - Developed employee features: clock in/out, justification of unexcused absences, and leave request submission with status tracking
  - Integrated a PDF report generation system for performance reports and time tracking history for analysis and archiving
  - Implemented a real-time notification system for tracking actions and statuses, improving communication between employees and managers
- 2022 **Intern (Human and Social Training Internship), F3T, Fraternité Tunisienne de Traitement Thermique, Zaghouan, Tunisia**
  - Participated in professional training activities and discovered the industrial environment

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## Projects

- 2025 **SmartMediShop - Medical E-Commerce Mobile Application**
- Developed a full-stack mobile e-commerce application for medical products using Flutter/Dart with Firebase backend integration
  - Built comprehensive user management system with role-based access control (Admin, Nurse, Customer, Delivery Guy) and authentication via Firebase Auth and Google OAuth
  - Implemented Node.js/Express REST API backend with Firebase Admin SDK for push notifications, email services, and real-time data synchronization
  - Integrated geolocation services for delivery tracking, SQLite for offline data storage, and appointment scheduling system with calendar integration
- 2025 **SmartMediShop - AI-Powered Fraud Detection System**
- Developed a full-stack e-commerce fraud detection system combining Machine Learning models with rule-based logic
  - Built Angular frontend with Material Design and Spring Boot REST API backend with JWT authentication
  - Implemented Python Flask API with hybrid fraud detection using Isolation Forest and Random Forest models
  - Trained and deployed ML models (Scikit-learn) with feature engineering for real-time transaction analysis
- 2025 **Intelligent Support Management System with ML Recommendation**
- Developed a complete full-stack web application with Spring Boot (backend) and Angular (frontend) including a support and ticket management system
  - Implemented an intelligent recommendation system based on BERT and TF-IDF to automatically recommend the top 3 administrators to resolve each ticket based on their skills and problem description
  - Developed and deployed Machine Learning models with Flask (Python) and Scikit-learn for semantic ticket analysis and intelligent matching with administrator profiles
  - Integrated the ML recommendation engine with the web application via secure REST APIs and Keycloak integration for user management and authentication
- 2024 **Desktop and Web Application with Symfony**
- Developed a desktop application with JavaFX and a web application with Symfony (PHP) sharing a common database
  - Implemented data synchronization and management between both platforms

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## Education

- 2022–present **Engineering cycle (3<sup>rd</sup> year), major in Software Architecture Engineering, ESPRIT (Private Higher School of Engineering and Technology), Ariana, Tunisia**

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## Languages

French (Fluent), English (Fluent), Arabic (Native)

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## Certifications

- 2025 **AWS Academy Graduate - Cloud Foundations** – AWS Academy (20 hours)
- 2025 **Hashgraph Developer Course** – Hedera (Distributed Ledger Technology)
- 2023 **CCNA: Switching, Routing and Wireless Essentials** – Cisco Networking Academy (NetAcad)

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## Interests

Sports (football, hiking), Chess, Volunteering, Technology watch, Travel

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## Extracurricular Activities

Former Scout member (Group Leader) for 4 years, Participated in an international camp in Turkey, Event manager during the National Endurance Day