

# TAHER GUESMI

Java Full-Stack Developer | Modular Architectures & B2B Integrations

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## PROFESSIONAL EXPERIENCE

### Smart DigiDocs Developer

Contraste Europe

June 2024 – Present    Tunis

https://www.smartdigidocs.com/

- Context:** SmartDigiDocs is a leading SaaS platform for document digitization, managing production, secure distribution (email, printing, mail), archiving, and electronic signature of critical documents for thousands of users in production.
- Architecture & Key Technologies:**
  - Development of highly scalable modular architecture based on **OSGi/Equinox** with **EMF** for business modeling
  - Expertise in **Eclipse RCP/PDE** for desktop user interface and **Tycho** for Maven build automation
  - Full-stack development with **Node.js/Express** (backend API) and **React.js** (frontend SPA) for the web client application
  - Database management with **PostgreSQL** and **MongoDB** for document storage
- Major Technical Achievements:**
  - PEPPOL Integration:** Complete design and implementation of the PEPPOL (Pan-European Public Procurement OnLine) standard for secure and standardized exchange of electronic documents (invoices, purchase orders, catalogs) according to UBL 2.1 specifications, accelerating cross-border B2B processes and ensuring European regulatory compliance
  - Federated Authentication:** Implementation of modern authentication solution with **OAuth 2.0/OpenID Connect**, enabling SSO (Single Sign-On) via external identity providers (Azure AD, Google, Keycloak), strengthening multi-tenant security and user experience
  - Native Plugins:** Design and development of modular OSGi plugins to enhance the platform's business capabilities, boosting document workflow automation and enabling flexible feature extension
- Optimization & Security:**
  - Led strategic upgrade of Eclipse target platform (Jetty, JRE 17, Babel, Orbit) and migration of third-party Maven dependencies to improve performance and ensure long-term compatibility
  - In-depth security audit: identification and proactive mitigation of critical CVE vulnerabilities in the dependency ecosystem (Maven Central, npm), ensuring maximum security compliance
  - Performance optimization: legacy code refactoring, API response time improvement (-40%) and memory consumption reduction
- Complete Tech Stack:** Java 11/17, OSGi/Equinox, EMF, Eclipse RCP/PDE, Tycho, Maven, Node.js, Express.js, React.js, Redux, PostgreSQL, MongoDB, OAuth 2.0, OpenID Connect, PEPPOL/UBL, REST API, Git, Jenkins, Docker

### Apiz ERP Developer

Audaxis Contraste

May 2019 – May 2024    Tunis

https://www.apiz-erp.com/

## TECHNICAL SKILLS

Java 8/11/17    Spring Boot    OSGi/Equinox  
Eclipse RCP/PDE    EMF    Tycho  
Node.js    Express.js    React.js  
Angular    Redux    REST API  
OAuth 2.0    OpenID Connect  
PEPPOL/UBL    PostgreSQL  
MongoDB    Oracle DB    PL/SQL  
Maven    Git    GitLab CI    Docker  
Docker Swarm    Keycloak  
JasperReports    SPARQL/RDF

## KEY STRENGTHS

Modular Architecture    Problem Solver  
Rigorous & Autonomous    Team Player  
Technology Watch

## LANGUAGES

French    ● ● ● ● ●  
English    ● ● ● ● ●  
Arabic    ● ● ● ● ●

## EDUCATION

Master's Degree in Software Engineering

University of Sfax, Tunisia

2016 – 2019

Thesis: "Temporal Semantic Web"

Grade: Good

Bachelor's Degree in Applied Computer Science

University of Sfax, Tunisia

2012 – 2015

Grade: Good

## INTERESTS

Open Source    Tech Watch  
Software Architecture  
Cloud Computing

- **Context:** Development and evolution of Apiz ERP, an integrated management solution based on modern architecture with **Spring Boot** (back-end) and **Angular** (frontend), centralized authentication via **Keycloak** and orchestration with **Docker Swarm**.
- **Major Technology Migration:** Active contribution to ERP migration from legacy J2EE framework to modern **Spring Boot/Angular** stack, improving maintainability, performance and user experience
- **Critical Module Development:**
  - **GDPR Module:** Complete design and implementation of GDPR (General Data Protection Regulation) compliance application, including personal data auditing, consent management and deletion workflows
  - **MES Module:** Development of Manufacturing Execution System to optimize industrial processes (planning, production tracking, resource management)
  - **FixedAsset Module:** Redesign and upgrade of fixed assets management module with new accounting features (depreciation, disposals, inventory)
- **Performance Optimization:**
  - Improved Java Spring business processes, reducing response times by 35% through algorithmic optimization and strategic caching
  - Optimized stored procedures and **PL/SQL Oracle** functions, improving complex query performance and batch processing (50% execution time reduction)
- **Integrations & Automation:**
  - Development of automated **Spring Batch** service retrieving daily exchange rates via ECB (European Central Bank) REST API for real-time currency updates
  - Integration with **Keycloak** for SSO authentication and centralized user and role management
- **Reporting & CI/CD:**
  - Creation of complex reports with **JasperReports** and integration into business workflows
  - Setup and improvement of CI/CD pipelines with **GitLab CI**, automating builds, tests and deployments on **Docker Swarm** infrastructure
- **Complete Tech Stack:** Java 8/11, Spring Boot, Spring Batch, Spring Data JPA, Angular 8+, TypeScript, Keycloak, Oracle Database, PL/SQL, JasperReports, Docker, Docker Swarm, GitLab, GitLab CI, REST API, Swagger

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## Master's Thesis: Temporal Semantic Web

### MIRACL

📅 2017 – 2019

📍 FSEGS, University of Sfax

- Extension of **RDF** (Resource Description Framework) model to integrate temporal dimension: development of Temporal-RDF model
- Customization of **SPARQL/SPARUL** language for temporal data manipulation: creation of Tempo-SPARUL language
- Technologies: RDF, SPARQL, Java, Jena Framework, OWL Ontologies