# HAYTHAM BRAHEM

**Full Stack Engineer | Spring Boot & Angular**

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## PROFESSIONAL PROFILE

Full Stack Engineer with strong experience in developing scalable web applications using Spring Boot, Angular, and microservices architectures. Specialized in designing secure enterprise and banking solutions with JWT integration, database optimization, and Agile/Scrum methodology. Proficient in modern front-end development (Angular 19, TypeScript) and robust back-end systems (Java 17, Spring Boot 3.x). Graduated from ESPRIT with a successful final-year project at BNA Bank. **Immediately available** to contribute to innovative projects and technical challenges.

## TECHNICAL SKILLS

- **Programming Languages:** Java (Expert), TypeScript, JavaScript (ES6+), PHP, Python
- **Back-End Frameworks:** Spring Boot 3.x, Spring Security, Spring Data JPA, Hibernate, Symfony
- **Front-End Frameworks:** Angular 19, React, RxJS, NgRx, HTML5, CSS3, SASS, Bootstrap, Tailwind CSS
- **Databases:** MySQL, PostgreSQL, MongoDB
- **APIs & Integration:** RESTful APIs, GraphQL, Swagger/OpenAPI, Postman, JWT Authentication
- **DevOps & CI/CD:** Docker, Git, GitHub, Jenkins, Maven, SonarQube, Kubernetes (basics)
- **Methodologies:** Agile/Scrum, TDD, Design Patterns (MVC, Repository, Factory, Singleton)
- **Cloud Platforms:** AWS, Azure, Google Cloud Platform

## PROFESSIONAL EXPERIENCE

- **BNA - Banque Nationale Agricole**                                                    *Feb 2025 – Aug 2025*
  *Full Stack Engineer - Final Year Project*                                                    Tunis, Tunisia
  ◦ Designed and developed a full-stack legal case management platform serving 50+ users using Spring Boot (Java 17) and Angular 19
  ◦ Implemented 9 core business modules: Case Management, Real-Time Tracking, Guarantees, Mortgages, Sureties, Assets, Providers, Missions, and Automated Assignments
  ◦ Developed a role-based workflow system (RBAC) with multi-level validation circuits reducing processing time by 40%
  ◦ Created a dynamic analytics dashboard with real-time KPIs and smart mission assignment based on workload and expertise
  ◦ Integrated Spring Security with JWT for secure authentication, session management, and XSS/CSRF prevention
  ◦ RESTful architecture with Swagger documentation for 50+ endpoints and unit tests with 85% code coverage
  ◦ Optimized SQL queries reducing response times by 60%

- **SNDP, AGIL Energy**                                                    *Jul 2024 – Sep 2024*
  *Full Stack Developer - Engineering Internship*                                                    Tunis, Tunisia
  ◦ Developed a web application for lubricant distributor management using Spring Boot and Angular, improving operational efficiency by 35%
  ◦ Implemented JWT-based authentication with refresh tokens and user roles (Admin, Manager, Seller)
  ◦ Designed and normalized MySQL database with 15+ optimized tables and indexed relations
  ◦ Built 30+ RESTful endpoints documented with Swagger and validated through Postman tests
  ◦ Applied Agile SCRUM methodology with 2-week sprints and full project delivery in 10 weeks
  ◦ Developed reusable Angular components (directives, pipes, services) reducing redundant code by 25%

- **ESPRIT – Private Higher School of Engineering and Technology**                                                    *Jul 2024 – Aug 2024*
  *Full Stack Web Developer - Internship*                                                    Remote
  ◦ Developed a mobility management platform for 200+ students and staff using Spring Boot and Angular
  ◦ Integrated JWT-based authentication with secure session management and granular access control
  ◦ Optimized SQL queries with pagination, lazy loading, and indexing reducing load time by 50%
  ◦ Used MySQL, Postman, and Swagger for data handling, API testing, and documentation
  ◦ Implemented client-side and server-side validation ensuring data integrity

## ACADEMIC & PERSONAL PROJECTS

• **ERP Solution for Integrated Resource Management**
*Spring Boot, Angular, TypeScript, MySQL, JWT, Docker, IntelliJ IDEA* [○]
  ◦ Designed and developed a complete ERP system with microservices architecture (8 independent services)
  ◦ Built HR, Accounting, Inventory, and CRM modules using Angular Material with responsive design
  ◦ Developed RESTful APIs with Spring Boot, secured with JWT, API Gateway, and Eureka Service Discovery
  ◦ Used Agile methodology with GitFlow, pull requests, and continuous delivery
  ◦ Added unit and integration tests (JUnit 5, Mockito, Jasmine, Karma) with 80% coverage

• **TunEvent – Local Event Management Platform**
*Java, PHP, Symfony, NetBeans, SceneBuilder, MySQL, Twig* [○]
  ◦ Initially developed in JavaFX, then migrated to Symfony for a modern web experience
  ◦ Implemented key features: online booking, Stripe payment, QR-code ticketing, and rating system
  ◦ Designed intuitive UI with SceneBuilder and Twig responsive templates
  ◦ Integrated real-time notifications, automated emails, and SMS confirmations

• **Automated DevOps CI/CD Pipeline (Complementary Skills)**
*Jenkins, Docker, Maven, Nexus, SonarQube, Trivy, GitHub, Kubernetes* [○]
  ◦ Automated full CI/CD pipeline with Jenkins for continuous builds, testing, and deployment
  ◦ Dockerized Spring Boot applications with multi-stage builds reducing image size by 60%
  ◦ Integrated SonarQube for static code analysis, Trivy for CVE vulnerability scans
  ◦ Deployed to Kubernetes cluster with Helm Charts, HPA autoscaling, and monitoring via Prometheus/Grafana

## EDUCATION

• **ESPRIT – Private Higher School of Engineering and Technology** *Sep 2022 – Dec 2025*
*Engineering Degree in Computer Science – Software Development* El Ghazala, Ariana

## PROFESSIONAL CERTIFICATIONS

• **Java Full Stack Developer Specialization – Coursera (2024)**
• **Deploy Containers with Azure Kubernetes Service (AKS) – Microsoft Learn (2024)**
• **Docker Essentials: A Developer Introduction – IBM Cognitive Class (2024)**

## ADDITIONAL INFORMATION

**Languages:** Arabic (Native), French (B2 – Professional), English (B2 – Technical)
**Availability:** Immediate | **Mobility:** All Tunisia | **Contract Type:** Permanent, Fixed-term, Freelance
**Interests:** Open Source Contribution (GitHub), Tech Trends, Fitness, Basketball, Chess