Adam Chemengui

Software Engineering Student

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Profile

Final-year Software Engineering student (ESPRIT), specialized in Backend Development, DevOps and Mobile Apps. Strong skills in Java, Spring Boot, REST APIs, Docker, Kubernetes, CI/CD and application security. Experienced in delivering scalable and secure solutions in Agile/Scrum environments.

Professional Experience

2025 — **Application Security Intern**, *SMT – Société Monétique de Tunisie*, Tunis
- Implemented a DevSecOps platform (SAST/DAST), achieving 95% vulnerability detection.
- Deployed a RAG Deep Learning agent: +25% prioritization efficiency, +40% faster analysis (1000+ alerts).
- Containerized security pipelines using Docker & Kubernetes for scalable deployments.

2024 — **Web Development Intern**, *La Poste Tunisienne*, Tunis
- Designed an invoice management system (Java / Spring Boot), automating 80% of manual tasks.
- Optimized SQL/MySQL queries: reduced critical errors by 20%, improving performance by 15% (5000+ transactions/month).
- Integrated Symfony modules for secure invoice validation workflows.

2022 — **Networks & Systems Intern**, *Banque Tuniso-Libyenne*, Tunis
- Supervised 100+ servers/workstations ensuring 99% availability.
- Resolved 10+ critical incidents, reducing downtime by 20%.

Education

2021–2026 — **Software Engineering Degree**, *ESPRIT*, Ariana

2021 — **Baccalaureate in Experimental Sciences**, *Esprit Al-Fikr*, Ariana

Academic Projects

2025 — **Sales Management CRM | Power BI**
- Designed and implemented an ETL process (Power BI) and developed interactive dashboards.
- Improved reporting efficiency by 50% for over 5,000 monthly transactions.

2024 — **Construction Project Management Platform | Angular + Spring Boot**
- Developed a 5-module platform used by 30+ engineers across 10 projects.
- Coordinated Agile sprints, reducing project delays by 15% and boosting productivity by 20%.

2022 — **Banking Web & Mobile Platform | JavaFX + Flutter**
- Built a multi-platform solution processing 1,000+ transactions/day.
- Reduced approval time by 20% and boosted processing efficiency by 15%.
- Integrated mobile features with Flutter for real-time banking operations.

Skills

Programming Languages: Java, Python, PHP, JavaScript, C#

Frameworks: Spring Boot, Symfony, Angular, Node.js, React, Flutter, .NET

Backend & Architecture: REST/SOAP APIs, Microservices, System Design, Distributed Systems, UML, Design Patterns, Scalability, High Availability, Agile/Scrum

Data & Big Data: MySQL, MongoDB, SQL Server, Oracle, Power BI, Hadoop, Spark (basics), Machine Learning, Deep Learning

Security: DevSecOps, Application Security, OWASP Top 10, SAST/DAST, Firewalls

DevOps & Systems: Docker, Kubernetes, Jenkins, GitHub Actions, Linux, Windows Server, VMware, Git, Networking (Cisco CCNA)

Languages

- Arabic (Native) • French (Intermediate) • English (Intermediate) • German (Beginner)