

Billel Abdelrezak ATTAFI

Senior Software Engineer | Backend & Platform .NET
.NET · Clean Architecture · Distributed Systems · DevSecOps

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PROFILE

Senior Software Engineer with 10+ years of experience designing high-performance backend systems, distributed architectures, and geospatial solutions. Expert in .NET, PostgreSQL/PostGIS, and Clean Architecture, with a strong track record of building scalable, production-ready systems.

Experienced in implementing secure CI/CD pipelines integrating modern DevSecOps practices (SBOM, image signing, supply chain security, SAST). Proven ability to lead technical teams, drive architectural decisions, and deliver critical production systems.

–60%

logistics operational costs

–100%

mapping licensing costs

–40%

GIS batch execution time

+32%

industrial platform perf.

+25%

team productivity (8 devs)

WORK EXPERIENCE

Tech Lead – Senior Backend .NET Developer

Sep 2025 — Present

Davidson (Mission: APRR — Free Flow Project) | Dijon, France

Stack: .NET · Clean Architecture · Design Patterns · PostgreSQL · RabbitMQ · Minimal API · WPF/MVVM · Azure DevOps

- Designed and led a scalable backend architecture using Clean Architecture and advanced patterns (Mediator, Decorator, Factory, Repository, Unit of Work).
- Modeled and optimized PostgreSQL schemas (indexing, partitioning, JSONB) to handle high-traffic tolling data flows.
- Implemented event-driven architecture with RabbitMQ (publishers/consumers) for asynchronous, scalable workflows.
- Developed high-performance Minimal APIs and a WPF client (MVVM) for real-time toll flow supervision dashboard.
- Set up CI/CD pipelines on Azure DevOps and integrated DevSecOps practices into the delivery lifecycle.
- Technical mentoring, code reviews, and architectural decisions within an Agile (Scrum) context.

Senior Backend .NET Developer

Aug 2024 — Aug 2025

NOOEH (Mission: Colis Privé — CMA CGM) | Marseille, France

Stack: .NET · NetTopologySuite · PostgreSQL/PostGIS · Clean Architecture

- Built advanced geospatial APIs for complex geometry processing (NetTopologySuite + PostGIS).
- Optimized distance-calculation batches: –40% execution time.
- Designed a postal contour management solution with optimized geographic search.
- Deployed a logistics routing engine improving delivery tour planning.
- Active contribution to architectural decisions and team leadership (5 developers).

Software Development Engineer

Oct 2023 — Aug 2024

My Kiwi (Mission: ArcelorMittal) | Marseille, France

Stack: .NET Core · Angular · SQL Server · IoT

- Modernized a mission-critical industrial platform: Visual Basic 6 → .NET Core & Angular migration (+32% performance).
- Integrated an IoT platform for real-time industrial data tracking and analysis.
- Delivered training and onboarding for business teams adopting the new platform.

Head of C# Development

Jan 2023 — Oct 2023

IT Systèmes | Paris, France

Stack: .NET · Clean Architecture · Microsoft Graph API · Azure AD · SharePoint · Teams SDK · CI/CD

- Led an 8-developer .NET team, implemented SOLID standards and CI/CD pipelines (+25% productivity).
- Designed a modular Microsoft Teams plugin using Clean Architecture, integrating SharePoint and Azure AD via Microsoft Graph API.
- Built an automated billing module linking Teams conversations to external accounting software.

Operational Director / Project Manager / Full Stack Developer

Nov 2015 — Dec 2022

Hostaplast | Algiers, Algeria

Stack: .NET · WPF/MVVM · PostgreSQL/PostGIS · NetTopologySuite · OpenCVSharp · SQL Server · Scrum

- ▶ Optimized nationwide logistics operations across 4,000 retail points: –60% operational costs via route optimization.
- ▶ Built a full internal geospatial API (geocoding, reverse geocoding, routing, elevation, autocomplete) replacing Google Maps: –100% licensing costs.
- ▶ Designed and deployed an internal GIS platform with a WPF (MVVM) app for address management and visualization.
- ▶ Developed a high-performance reverse geocoding engine in C#/.NET, optimized for large address volumes.
- ▶ Implemented an image recognition system with OpenCVSharp (shape detection, object classification).
- ▶ Designed a full-featured ERP in .NET + SQL Server (inventory, sales, automated billing, analytics).

PORTFOLIO PROJECT

Secure Software Supply Chain Platform — Production-Grade CI/CD with DevSecOps

Complete CI/CD pipeline implementing modern software supply chain security practices.

- ▶ SAST (Semgrep, CodeQL, Ruff), dependency scanning (pip-audit, Safety, OSV Scanner), container scanning (Trivy, Gype).
- ▶ SBOM generation and provenance attestation (SLSA) for every build artifact.
- ▶ Docker image signing with Cosign (keyless) and automated signature verification before deployment.
- ▶ Multi-architecture builds (linux/amd64, linux/arm64) with GitHub Actions caching.
- ▶ Automated Quality Gate aggregating tests, coverage (75%+), strict lint (mypy strict mode) and security results.
- ▶ Dependabot automation with differentiated patch/minor/major rules and controlled merge by dependency type.
- ▶ Production CD pipeline with staging validation, smoke tests, and rollback notification on failure.

TECHNICAL SKILLS

Backend & Architecture • C# / .NET Core / Minimal API • Clean Architecture · SOLID · Hexagonal • Design Patterns (Mediator, CQRS, UoW...) • Event-driven (RabbitMQ, Kafka) • Microservices · Distributed Systems	DevSecOps & CI/CD • GitHub Actions · Azure DevOps · GitLab CI • Docker · Multi-arch builds • SAST · Dependency scanning · SBOM • Container signing (Cosign · SLSA) • Quality gates · Automated testing	Data & GIS • PostgreSQL / PostGIS · SQL Server · MySQL • NetTopologySuite · OpenStreetMap · QGIS • Performance optimization · Indexing • IoT data processing
Languages • C# (expert) • Python • TypeScript / SQL	Frontend & Tooling • WPF / MVVM · Blazor • Angular (working knowledge) • Git · Scrum / Agile • Azure AD · Microsoft Graph API	Soft Skills • Technical leadership (8 devs) • Mentoring & code review • Architectural decisions • Technical communication

EDUCATION

Master's in Parallel Architecture and High-Performance Computing USTHB — University of Science and Technology Houari Boumediene, Algiers	2015 — 2017
Bachelor's in Information Systems and Software Engineering USTHB — University of Science and Technology Houari Boumediene, Algiers	2010 — 2015