

Ahmed MAKROUM

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Profile

Software engineer focused on building full-stack web applications from backend logic to user-facing features. Experienced in designing APIs, structuring databases, building clean interfaces, and connecting applications to real business workflows. Comfortable working across architecture, implementation, testing, and deployment. Focused on maintainable code, performance, and reliable web applications used in production environments.

Experience

Software Engineer, Attijariwafa bank Feb. 2026 - Present

- Developed full-stack applications using .NET and React to support business workflows and improve operational efficiency.
- Integrated Microsoft Graph APIs to centralize user, permission, and collaboration data across systems.
- Built SPFx web parts (React) within SharePoint, improving accessibility and adoption of internal tools.
- Designed and implemented backend architectures (REST APIs, authentication, role-based access control) ensuring scalability and maintainability.

Data Engineer, Metaverse Sep. 2025 – Dec. 2025

- Designed modular data architectures across AWS, GCP, and on-premise environments, standardizing deployments and reducing setup complexity.
- Automated infrastructure provisioning with Terraform, enabling scalable and reproducible environments in minutes.

Internship - Data Engineer, Allianz Morocco Mar. 2025 – Sep. 2025

- Built data pipelines (NiFi + Spark) consolidating multi-source data into a centralized PostgreSQL warehouse.
- Automated data extraction workflows, reducing report delivery time from hours to minutes.
- Delivered self-service BI dashboards (Metabase), enabling business teams to track KPIs without engineering dependency.
- Developed a microservices-based application (Spring Boot + Next.js) for claims management, used by 50+ users.

Internship - Data Engineer, Boti School Jun. 2024 – Aug. 2024

- Developed Apache Beam pipelines (GCP) processing large-scale usage data for accurate consumption tracking.
- Designed a BigQuery warehouse supporting automated per-user billing systems.
- Delivered real-time dashboards (Looker Studio), eliminating manual financial reporting.

Internship - Web and Mobile Developer, 6Solutions Jun. 2024 – Aug. 2024

- Built a multi-service platform centralizing legal, medical, and financial services.
- Developed scalable frontend/backend architecture using Angular and Spring Boot.
- Delivered a cross-platform mobile application using Flutter.

Internship - Game Developer, Finso Jul. 2023 – Aug. 2023

- Developed an educational game introducing management and strategy concepts through interactive gameplay.
- Built the project in Unity with interactive mechanics and optimized user experience for younger audiences.

Education

EMSI – École Marocaine des Sciences de l'Ingénieur, Master's degree in Software Engineering and Networks Sept 2020 – Mar 2025

Skills

Core Stack: .NET, React, Next.js, Spring Boot

Databases: PostgreSQL, MongoDB, Cassandra, Hive