HUSAIN SABBA

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Backend software engineer focused on system design: translating business requirements into scalable, cloud-native architectures and carrying them through to production. Experienced in designing distributed, event-driven microservices in Java (Spring Boot) and in making the trade-offs that keep systems reliable, resilient, and maintainable as they grow.

EXPERIENCE

Software Engineer| Cloud & Microservices | AFS (Arab Financial Services), Bahrain
September 2025 – Present

- Designed and built SMS Processing System (SPS), a multi-tenant SMS gateway, reducing cost by 80% while doubling bandwidth and improving ease of use for both internal users and customers.
- Designed and built E-Statement Processing System (EPS), cutting template creation time by 90% and accelerating statement generation for 10,000 statements from 5 hours to under 10 minutes.
- Contributing to the Acquiring Management System (AMS), a core card-payments platform for merchant acquiring.
- Deployed and operated production microservices on Kubernetes using Kustomize overlays and ArgoCD GitOps rollouts across UAT and production.
- Supported DevOps on deployments and CI/CD: cut build times on local CI runners via local caching, and introduced CI workflows for automated version migrations and Renovate-based dependency and security patching.

IT intern | IT department | Bapco Energies, Bahrain
July 2024 – September 2024

- Collaborated with Oracle teams and internal stakeholders to gather requirements and evaluate integration solutions.
- Assisted the project managers in implementing a solution that improved system efficiency across subsidiaries.

Intern | ATM and Switch | AFS (Arab Financial Services), Bahrain
July 2023 – September 2023

- Documented the technical aspect of the payment processing and payment workflow in AFS.
- Worked with the IT Infrastructure team to implement the UAT environment for the switch system.
- Wrote a script to automate Arabic typing on ATM onboarding.

EDUCATION

Bachelor of Information and Communications Technology (Programming Major) | Bahrain Polytechnic
Graduated June 2026

- President of the Bahrain Polytechnic Developers Club

TECHNICAL SKILLS

- **Languages:** Java, TypeScript, C#, Go, Python
- **Frameworks:** Spring Boot, Nuxt / Vue, ASP.NET Core MVC
- **Architecture & Design:** Microservices, event-driven architecture, distributed systems
- **Messaging & Streaming:** Apache Kafka, RabbitMQ
- **Cloud, DevOps & Infrastructure:** Kubernetes, Docker, ArgoCD, GitOps, Kustomize, CI/CD pipelines, Linux, Nginx
- **Databases & Storage:** PostgreSQL, Redis / Valkey, S3 (Object storage)
- **Build & Tooling:** Maven, Flyway, Git, Gitea

PROJECTS

E-STATEMENT PROCESSING SYSTEM (EPS) | AFS (Arab Financial Services), Bahrain

- Replaced legacy batch e-statement generation with a scalable Spring Boot microservice architecture (PostgreSQL, RabbitMQ, S3), producing secure, compliant customer PDFs at high volume.
- Built an AI service and a self-service Studio UI so business users create statement and email templates themselves, removing the need for engineers to hand-write HTML templates.

SMS PROCESSING SYSTEM (SPS) | AFS (Arab Financial Services), Bahrain

- Rebuilt a legacy SMS gateway as a multi-tenant Spring Boot microservices platform handling bulk, transactional, and OTP traffic for partner banks.
- Integrated local SMS providers in every country AFS and its clients operate in, with multiple connection methods (SMPP, HTTP APIs, webhooks for delivery reports) behind circuit-breaker failover to eliminate single-provider risk.
- Added a Kafka-based delivery pipeline with per-traffic-class topics plus rich reporting and monitoring.

Digital Student Attendance & Scoring System | Dream Big Bahrain

- Initiated the project at the Saar branch with a **Google Sheets** and **Google Scripts** prototype to replace manual attendance and scoring with automated data entry.
- Scaled the system across five branches using **Airtable** and **Fillout**, giving volunteers a centralized, mobile-friendly interface and reducing weekly reporting effort across the organization.
- Designed branch-specific **workflows** and data validation rules to maintain accuracy and consistency across all locations.
- Migrated to a **Baserow-**powered backend with a custom **Express.js** web app, adding real-time updates, role-based admin management, and analytics for program leaders and executives.

LEADERSHIP & VOLUNTEERING

President | Bahrain Polytechnic Developers Club | 2024 – 2025

- Led the campus developer club; organized technical workshops and mentored students through hands-on projects.
- Hosted a hackathon with Reboot01.

Head of Students Affairs | Dream Big Bahrain| 2023 – 2026

- Coordinated student programs across five branches and led the technical modernization of the organization’s volunteer attendance and scoring system.

CERTIFICATIONS & COURSES

- Fundamentals of Software Architecture for Big Data — University of Colorado Boulder
- Career Essentials in Software Development — Microsoft

ACHIEVEMENT

- *Two-time winner at **Startup Bahrain** | Bahrain's national platform for entrepreneurship and innovation.*