Osman Khalid

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EDUCATION

George Mason University | Cumulative GPA 3.72 — Fairfax, VA

Bachelor of Science: Systems & Industrial Engineering — May 2027 (Senior)

PROFESSIONAL EXPERIENCE

Powersim Solutions Inc. | *Data Engineer* | Herndon, VA — May 2026 – Present

- Consolidated 3,746 project records from 7+ years of fragmented Excel sources into a unified database schema, mapped across 6 regional offices for a nonprofit operating in 32 countries.
- Built a color-coded gap-analysis report across 30 data fields by region, surfacing 8 critical missing fields and 950+ incomplete records to guide leadership's data-cleanup strategy.
- Designed two production KoboToolbox survey instruments (~90 questions) from a 302-page WHO data standard, using conditional logic, matrix grids, and offline GPS capture to fix data quality at the source.
- Diagnosed and resolved root-cause data issues (misaligned headers, OCR errors in source documents) and reported progress directly to a COO-level stakeholder across multiple workstreams.

JY Global Consulting | *Salesforce Business Analyst* | Springfield, VA — Jun 2022 – Sep 2024

- Managed 40+ user profiles and maintained reports, automation workflows, and sandbox environments for CRM operations.
- Drove CRM workflow improvements that raised data accuracy ~10–15%, and trained end-users to improve system adoption and response time.
- Conducted stakeholder requirements-gathering sessions and translated business needs into actionable Salesforce solutions.
- Created process documentation, user stories, and data flow diagrams to bridge technical teams and business units.

Embassy of Sudan | *System Analyst* | Washington, D.C. — Feb 2023 – Oct 2023

- Helped streamline internal embassy systems and access protocols, contributing to a 12–15% improvement in processing efficiency.
- Assisted in managing user accounts, security settings, and financial dashboards under supervision of senior staff.
- Collaborated across three departments to enhance coordination and ensure consistency in system usage and reporting.

PROJECTS

DCAST – Data Center Architecture for Sustainable Technology | *Senior Design Capstone* — Aug 2026 – Present

- Technical Communications Lead on a 5-person team developing a socially acceptable, economically viable AI/HPC data center design for Northern Virginia, weighing power, cooling, water, cost, and noise trade-offs before construction.
- Quantified the AS-IS performance gap for the problem statement: ~7-year grid connection wait vs. a 4-year target, and rework at 4–10% of a $1.76B, 100 MW build ($35–141M at risk).
- Interviewed industry, construction, and permitting contacts, toured an Equinix data center, and mapped stakeholder transactions to shape system requirements and SysML modeling.

ARCD – Unified Database & Digital Data Collection System | *Powersim Solutions*

- Delivered end-to-end data consolidation and a field-deployable digital survey system for a 501(c)(3) serving 32 countries, unifying 3,746+ records and deploying two KoboToolbox forms for real-time, GPS-tagged data capture.

UnityHousing CRM | *JY Global Consulting: Salesforce, Automation, Data Management*

- Built a custom Salesforce CRM to manage donations, volunteer data, and housing requests; implemented role-based access, validation rules, and workflow automations to enforce data integrity and streamline approvals.

LEADERSHIP

Phi Theta Kappa Honor Society | *Vice President* | Fairfax, VA — Mar 2024 – Present

- Oversaw leadership training programs and academic support groups for 100+ members, increasing member engagement.

ADAMS Center | *Leadership & Youth Volunteer* | Chantilly, VA — Sep 2025 – Present

- Mentored youth through structured activities and discussions, and coordinated donations during weekly events.

AFFILIATIONS & SKILLS

Affiliations: *CyberSquad, National Society of Black Engineers (NSBE), GMU Systems Engineering Club, INCOSE Student Division*
Languages: Arabic, English (spoken and written)
Certifications: Salesforce Certified Administrator course, Salesforce Certified Business Analyst, Salesforce Reports and Dashboards course, Salesforce CRM Basics for Business Analysts course
Methodologies: Systems Thinking, Agile, Waterfall, Requirements Engineering, Verification & Validation (V&V), Risk Analysis
Modeling, Simulation & Frameworks: SysML, MBSE (Model-Based Systems Engineering), MagicDraw, INCOSE SE Handbook, UML, ISO/IEC/IEEE 15288, MATLAB