

# Nawaf Al Suleis

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Riyadh, Saudi Arabia

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## Summary

A dynamic, innovative, and results-driven IT and Project Engineering professional with extensive experience managing complex airport systems and infrastructure projects. Skilled in project planning, systems integration, data management, and performance monitoring, with a proven ability to deliver data-driven solutions that enhance operational efficiency and support strategic decision-making. Experienced in stakeholder coordination, technical documentation, risk management, and system commissioning within live operational environments. Holds a Master's Degree in Data Science, leveraging advanced analytical, database, and visualization skills to optimize project execution and support evidence-based decision-making. A proactive team player recognized for leadership, problem-solving, and team guidance, combining technical expertise with a strategic mindset to successfully deliver high-impact IT and engineering projects.

## Education

### Master's of Science in Data Science, Analytics and Engineering (Computing and Decision Analytics)

Arizona State University, United States | Dec 2025

### Bachelor's Degree in Computer Science

Shaqra University, Saudi Arabia | Jun 2016

## Work Experience

### IT Project Engineer

*King Khalid International Airport | Jan 2017 - Dec 2019*

- Led IT infrastructure and systems projects across airport operations, including terminals, airside/landside systems, and facilities management platforms.
- Developed and managed project plans, schedules, resource allocation, and milestone tracking to ensure the timely delivery of IT solutions aligned with operational requirements.
- Coordinated with multidisciplinary teams including IT specialists, system integrators, contractors, and airport stakeholders to ensure smooth project execution.
- Oversaw the design, implementation, and integration of data management systems, ensuring accurate collection, storage, and accessibility of operational and performance data.
- Developed dashboards, reports, and analytics tools to support airport decision-making, performance monitoring, and operational optimization.
- Assisted in system requirements analysis, technical specifications review, and validation of deliverables to ensure compliance with airport IT standards and regulations.
- Monitored project progress, tracked KPIs, and prepared regular technical and status reports for management review.
- Supported testing, commissioning, and handover of IT systems, ensuring operational readiness, documentation accuracy, and user training.
- Implemented data quality and security measures, ensuring integrity, confidentiality, and compliance with aviation IT policies.
- Provided technical guidance to junior IT engineers and operators, contributing to knowledge transfer and consistent implementation of best practices.
- Identified project risks, interface issues, or potential data bottlenecks, and recommended corrective or preventive actions.

## Projects

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- **Enterprise Auction Platform - Database and System Design:**
  - Led the design and implementation of an end-to-end database system for an online auction platform, covering users, assets, bidding workflows, and transactions.
  - Applied data normalization (3NF), optimized SQL queries, and implemented stored procedures to ensure system reliability, scalability, and data integrity.
- **Data Visualization and Insight Platform (PowerSet):**
  - Redesigned an advanced data visualization system using D3.js to analyze complex category intersections and performance metrics.
  - Delivered interactive dashboards (treemaps, charts, tables) that enabled stakeholders to explore trends, compare systems, and support data-driven decision-making.
- **AG News Classification System - Machine Learning and Natural Language Processing:**
  - Developed and compared multi-class text classification models using TF-IDF with Logistic Regression and SVM and a BERT-based transformer model.
  - Performed data preprocessing, cross-validation, and performance evaluation using Precision, Recall, F1-Score, Confusion Matrix, and ROC-AUC.
  - Deployed an interactive Streamlit application to enable real-time testing on unseen data.
- **Secure AI-Driven Query System (Chatbot for Customer Support):**
  - Designed a secure, LLM-powered chatbot to translate natural language into structured SQL queries.
  - Implemented access control, validation, and audit logging to ensure data security, compliance, and controlled system access.
- **Time Series Forecasting for Operational Planning:**
  - Developed and compared time-series forecasting models (ARIMA, SARIMA, Exponential Smoothing) to predict demand trends.
  - Provided data-backed insights to support capacity planning and operational optimization.
- **Book Recommendation System - Recommender Systems | Collaborative Filtering:**
  - Designed and implemented a personalized recommendation system using collaborative filtering techniques.
  - Applied cosine similarity and a sparse user-item interaction matrix to improve recommendation accuracy and user relevance.
- **Business Development Companies (BDC) Financial Analysis - Financial Data Analytics:**
  - Analyzed financial performance data for Business Development Companies (BDCs) using SEC filings.
  - Cleaned, integrated, and processed large datasets to extract key financial indicators.
  - Built an interactive dashboard to visualize insights and support management-level decision-making.

## Skills

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- Project Management
- IT Systems Integration
- Data Analytics
- Dashboard Reporting
- Data Management
- Database Systems
- System Testing
- System Commissioning
- KPI Monitoring
- Risk Assessment
- Stakeholder Coordination
- Vendor Management
- Requirements Analysis
- Change Management
- Operational Systems
- Airport IT Systems
- Process Optimization
- Quality Assurance
- Access Control
- Security Compliance
- Decision Support
- Documentation Control
- Communication
- Leadership
- Teamwork
- Problem Solving
- Time Management

## Languages

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- **Arabic:** Native
- **English:** Fluent