

# Ebrahim Khaled Sadri

IT Manager / Researcher

## Contact

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## Professional Experience

### IT Manager

*Al Wisam School (Sept 2021 to Present)*

- Established and implemented IT, Cybersecurity, and data protection policies.
- Commenced role as Internal Data Protection Officer in an official capacity.
- Created workflows for teachers and administrative staff to fully utilize available IT tools, increasing productivity and reducing manual, labour-intensive processes.
- Directed an ERP system deployment with full user, financial, academic, and administrative data migration from legacy platforms.
- Created data analysis tools, custom reporting, and interactive dashboards to deliver actionable insights for academic and administrative decision-making.
- Designed and deployed responsive JAM-stack website using Javascript framework NuxtJs, with Git to manage version control and deployments.
- Replaced manual asset and inventory tracking system with a locally hosted, Dockerized asset management system.
- Engineered a custom interface integrating PostgreSQL database to supplement the school ERP system during critical periods such as registration and results declaration.
- Developed an automated staff and students onboarding workflow, for creation of institutional accounts, assigning organizational units and groups, configuring permissions, and synchronizing data with the ERP.
- Reduced administrative manhours through task automation with Python such as scheduled backups, tracking staff development programs, tracking digital documentation and grading, and AI incident monitoring on CCTV cameras.
- Developed a Python-based distributed reporting and analysis system integrating into spreadsheets to automate academic progress tracking and result analysis, reducing teachers' administrative workload and increasing productivity.

### IT Administrator

*Al Wisam School (Nov 2020 to Sept 2021)*

- Automating academic data consolidation and report generation using Python, reducing processing time from weeks to hours.
- Managing upkeep of software systems and existing websites.
- Extending the existing asset tracking system through a locally hosted custom-built solution with MySQL database and scannable asset tags.

## Web Developer & Designer

Al Wisam School (Jan 2019 to Sept 2019)

- Designed and deployed responsive websites; improved UX and accessibility.
- Modernized front-end components and ensured mobile optimization.

## Education

### University of Bahrain

Master's in Machine Learning and Computational Intelligence (Sep 2022 to Dec 2025)

- Data Analysis and Big Data (Dask, PySpark): Conducted study on UK's historic energy consumption data.
- Applying Unsupervised methods, Deep Autoencoder, to classify unlabelled data.
- Thesis (Automated Knee Injury Detection Using Deep Learning and MRIs):
  - Conducted a research project on automated knee injury detection using deep learning techniques on MRI data.
  - Sourced real-world MRI and radiology data from a hospital, designed and curated a novel medical AI dataset while ensuring ethical handling of sensitive information.
  - Leveraged local LLMs to extract and label diagnostic information from medical radiology reports.
  - Applied advanced preprocessing pipelines on MR images to prepare data for image-based AI and deep learning workflows.
  - Developed imaged-based AI models for injury diagnosis, creating and experimenting with various architectures to optimize performance.

### University of Nottingham

BSc (Hons) in Computer Science (Sep 2017 to Feb 2021)

- Focus on Computer Vision, AI, and Software Engineering.
- Year-long group project creating a scheduling application for a client.
- Final Year Project: Cancer classification using endoscopic images and machine learning models
- Student Society's head of events planning and organisation

## Projects

### Lung Cancer Detection – Researcher & Supervisor

- Supervising student research project on using AI for lung cancer detection
- Awarded 2<sup>nd</sup> amongst all schools in the Kingdom of Bahrain in the GLOBE Program
- <https://github.com/EKS-AWIS/LungCancerDetection-AIWisamSchool>

### Arduino-Powered Garden System – Project Supervisor

Supervising student STEM project to create an automated gardening system using Arduino to monitor and water plants automatically

### Book publishing – Developer

Using Latex, Pandoc, and Python to process mathematical notation in multiple languages

### Tourism Agency – Web Developer

Designed and developed a website for a tourism agency