

Azzeddine Ben Khadra

Data & Technology Professional · Python · SQL · Smart Cities

Dubai, UAE · +971 50 395 5108 · azzeddine.benkhadra@gmail.com · azzeddinebk.com · linkedin.com/in/azzeddine · github.com/AzzeddineBenKhadra

Professional Profile

Technology professional moving into data analysis, with 10+ years in IT operations and technology education in the UAE and an MSc in Smart Cities from Rochester Institute of Technology. Builds data projects in Python and SQL, including an analytics application that cleans, visualizes and models transportation data, and a V2X prototype that collects real-time vehicle sensor data. Brings a track record of measuring processes and improving them through automation, and of explaining technical findings clearly to non-technical audiences.

Data Projects

Smart Mobility Analytics Studio

Python

Built a web application that turns raw transportation data into clean datasets, visualizations, geographic insights and machine-learning experiments.

github.com/AzzeddineBenKhadra/smart_mobility_analytics_studio

Road Traffic Management Using V2X Communication

MSc thesis, RIT · 2023

Designed and built a prototype that collects and transmits real-time vehicle data (speed, location, LiDAR and camera sensing) via OBD-II, GPS, GSM and Raspberry Pi, as a data foundation for traffic-monitoring platforms.

scholarworks.rit.edu/theses/11398

Afwan

NYU Abu Dhabi Hackathon

Contributed to a team-built on-demand app matching tourists with nearby, rated local experts, backed by a MySQL database and Django service (Cordova, AWS EC2).

github.com/NYUAD-Hackathon/AfwanApp

Work Experience

AI & Technology Educator

Aug 2019 – Present

Ministry of Education

Dubai, UAE

- Teach AI concepts, generative AI and digital tools, including how AI systems learn from data and how to apply them responsibly.
- Gather requirements and user feedback to plan, test and roll out educational technology platforms, and support their adoption.
- Use recurring support issues and user feedback to identify needs and recommend system improvements and more efficient digital workflows.
- Translate technical concepts into clear guidance, documentation and training for educators and staff.
- Provide technical support to educators and staff, diagnosing system, connectivity and platform issues.
- Work with academic, administrative and technical stakeholders on digital transformation and AI adoption initiatives.

Infrastructure & Operations Engineer

Jul 2015 – Aug 2019

Injazat Data Systems (now Core42)

Abu Dhabi, UAE

- Analysed the manual account provisioning process and automated it with PowerShell scripting, reducing setup time by more than 90%.
- Measured and optimised desktop imaging and deployment, cutting workstation build time from about 2 hours to 20 minutes and raising throughput to 25+ devices per day.

- Investigated VPN authentication and logging issues affecting Active Directory accounts, working with security and infrastructure teams to trace and resolve them.
- Designed and deployed IT and network infrastructure supporting 200+ workstations, 25+ printers and multiple communication rooms in large-scale rollouts.
- Performed troubleshooting, system configuration and incident resolution to maintain service continuity.
- Delivered onboarding and technical training to engineers and support staff on enterprise systems and workflows.

Skills

Data & Analysis: Python, SQL / MySQL, Data Cleaning, Data Visualization, Geospatial Analysis

Machine Learning & AI: ML Experimentation, Generative AI, AI Fundamentals

Smart Technologies: IoT, V2X, Sensor Data, Smart Infrastructure

Cloud & Systems: Microsoft Azure, Microsoft 365, Windows, Active Directory, PowerShell, Networking (TCP/IP, LAN/WAN, VPN)

Delivery & Communication: Requirements Gathering, System Testing, Process Improvement, Stakeholder Management, Technical Training, Documentation

Education

Master of Science in Professional Studies: Smart Cities

2021 – 2023

Rochester Institute of Technology, Rochester, NY, USA

Bachelor of Science in Computer Networks

2009 – 2014

University of Petra, Amman, Jordan

Certifications

SQL – MySQL for Data Analytics and Business Intelligence

Microsoft Certified: Azure Fundamentals

MCSA: Windows 10 (2018)

Languages

Arabic (native) · English (full professional proficiency)