

Nourhene Azaiez

+216 23-661-107 | Ariana, Tunisia - 2073

 Azaiez-Nourhene |  contact.nourheneazaiez@gmail.com |  azaiez-nourhene

SUMMARY

Motivated and driven engineering student with hands-on experience in data engineering, cloud technologies, and log management systems. Eager to apply technical expertise in real-time data processing, cloud deployment, and system optimization. Seeking opportunities to participate in enhancing system performance and delivering impactful solutions in challenging environments.

EDUCATION

- **Higher School of Communication of Tunis - SUP'COM** September 2022 - Present
 - Relevant Coursework: Big data, cloud computing, database management, system monitoring, machine learning and networking
- **Tunis Preparatory Institute for Engineering Studies - IPEIT** September 2020 - June 2022
 - Relevant Coursework: Mathematics, Physics, Computer Science | Rank 98/1815

PROFESSIONAL EXPERIENCE

- **EY Tunisia** September 2024 - January 2025
Tutored Project Hybrid
 - Developed and AI powered code conversion system between languages (Java, Python, C++) using generative models.
 - Optimized code conversion utilizing prompt engineering for accurate, efficient, and maintainable code translation.
- **Sofrecom** July - August 2024
Internship Tunis, Tunisia
 - Developed an integrated log management solution for interconnected services.
 - Utilized Fluentd for log collection, Elasticsearch for storage, and Kibana for visualization.
 - Enabled efficient monitoring, performance analysis, and real-time insights via dynamic dashboards resulting in a decrease of log analysis time by half and increase of productivity by over 25%.
 - Improved the team's system visibility, issue diagnosis, and optimization of service interactions.

ACADEMIC & PERSONAL PROJECTS

- **Air Pollution Monitoring and Prediction Application** November 2024
Tools: AWS Lambda, Amazon S3, Amazon SageMaker, LLMs, Amazon EC2, Grafana
 - Created an interactive map to monitor and predict air quality (PM2.5, ozone, NOx) across regions
 - Built a linear regression model for forecasting pollution levels based on historical data
 - Integrated an LLM to provide contextual insights from environmental reports
 - Deployed on AWS for scalable, real-time monitoring and prediction
- **Real Time Flight Data Pipeline** January 2024 - May 2024
Tools: Apache Kafka, Apache Spark, Elasticsearch, Kibana and Github Actions
 - Designed and implemented a real-time flight tracking data pipeline using Kafka, Spark, Elasticsearch, and Kibana.
 - Integrated GitHub Actions for continuous integration and deployment (CI/CD).
 - Deployed the project on Microsoft Azure for cloud-based scalability and performance.

SKILLS & CERTIFICATIONS

- **Data Engineering:** Apache Kafka, Apache Spark, Apache Airflow
- **Cloud Technologies:** AWS Lambda, Amazon S3, Kinesis, AWS Glue, AWS EC2
- **Programming Languages:** Python, C++, Dart, Matlab
- **Database Systems:** MySQL, Elasticsearch
- **DevOps:** Docker, GitHub Actions, GitLab-CI
- **Operating Systems:** Ubuntu, Windows
- **Certifications:** Docker(KodeKloud), AWS Data engineering Foundations, AWS cloud Foundations

VOLUNTEER EXPERIENCE

- **Primary Oragnizer** February-May 2024
IndabaX Tunisia 2024 Ariana, Tunisia
 - Coordination with event Partners.
 - Representing Tunisia during general meetings.
- **Chair-Woman** May 2023 - June 2024
IEEE Sup'Com Student Branch Ariana, Tunisia
 - Coordination of activities with local Section and and Region volunteers.
 - Presiding all the meetings and completion of the annual activities report.