

Iyad Elwy

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Fresh graduate in Computer Science with Majors in Data Science and Software Engineering

Summary

Enjoy working on projects at the intersection of **data engineering**, **DevOps**, and **infrastructure**. Interests include **container orchestration**, workflow **automation**, and building efficient, **scalable systems**. Passionate about integrating technology into creative and impactful solutions.

Employment History

Data Engineer

Nov 2024 – Current Date

Bosch GmbH – Renningen, Germany

- Manage and maintain Airflow deployments for data workflows.
- Work with Kubernetes and Rancher to orchestrate containerized applications.
- Handle video and metadata from vehicles, processing and analyzing large datasets.

Data Science Internship

Feb 2024 – Jun 2024 (5 Mo)

Bosch GmbH – Bühl, Germany

- Developed predictive Time-Series algorithms for an accelerated testing process to reduce Time to Market.
- Utilized advanced techniques to extract and interpret machinery data, contributing to improved decision-making processes.
- Conducted extensive research using academic databases to identify state-of-the-art methodologies, ensuring best practices in experiments.
- Collaborated effectively with cross-functional teams to drive project success and achieve shared objectives.
- Employed visualization and statistical analysis techniques to assess data integrity and derive actionable insights.
- Implemented a variety of machine learning algorithms, including both traditional and deep learning models, to address complex challenges.
- Leveraged Azure Cloud services, including Azure OpenAI, for model modification and testing, optimizing performance and scalability.
- Identified and implemented appropriate data stores within Azure Cloud, streamlining data ingestion processes and enhancing accessibility.
- Integrated Azure OpenAI with Microsoft Copilot to develop custom services, enhancing daily productivity and efficiency.
- Leveraged Azure Cognitive Services for natural language processing tasks, enhancing data understanding and insights extraction.

Software Engineering Internship

Jun 2023 – Sep 2023 (4 Mo)

Ackoo – Cairo, Egypt

- Designed and implemented effective database solutions and models to store and retrieve data.
- Collaborated on ETL (Extract, Transform, Load) tasks, maintaining data integrity and verifying pipeline stability.
- Created ETL pipelines for data extraction from various sources, including RESTful, and GraphQL APIs, optimizing data integration.
- Achieved a 30% data increase by implementing cloud-based data architecture (AWS and Firebase), enhancing business value.
- Implemented robust unit testing strategies, ensuring tool and pipeline reliability, with a focus on code coverage.
- Conducted code reviews, enhancing codebase quality, and fostering teamwork.
- Proficiently used Git and GitHub in an agile development environment.
- Expanded data sources by 12%, enriching the organization's data ecosystem.
- Implemented industry best practices in software engineering, adhering and leveraging advanced JavaScript techniques

Education

B.Sc. Computer Science April 2020 – July 2024
German International University – Cairo, Egypt
Major Data Science Minor Software Engineering

Informatics September 2019 – March 2020
Technische Universität Darmstadt– Darmstadt, Germany
Spent two semesters abroad in Germany studying Informatics

German Abitur April 2010 – June 2019
Europa Schule Kairo – Cairo, Egypt
Obtained my German Abitur from Europa Schule Kairo

Professional Skills

Software: Python | JavaScript | SQL | Django | Node.js | FastAPI | NextJs | React | Git | Linux | Docker | K8s | MongoDB | Airflow | Jenkins

Data: Spark | Pandas | Polars | Pytorch | Scikit-Learn | Data Preprocessing | Data-Pipelining | Visualization | Understanding of Deep Neural Networks

Misc: Understanding of Computer Networks, Databases, System Design, and Software Architecture | CI/CD
English, German, Arabic (Fluent in all 3)