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Career Summary

Software Engineer - Machine Learning • MLOps Engineer • Python Developer

- An organized, adaptable and analytical software engineer with +2 years of experience specializing in machine learning, data science, and frontend development. Committed to innovating data-driven systems for improved user experiences.
- Business-focused engineer adept at bridging machine learning use cases to end users, leveraging UI/UX and front-end expertise for user-friendly deployment.
- **Skilled in data analytics and visualization**, transforming complex data into user-friendly designs that provide valuable insights for data science projects.
- Positioned to combine expertise in software engineering and machine learning to deliver impactful, user-centric datadriven business solutions.

Areas of Expertise

- Software Engineering
- UI / UX Design
- Cloud Services (Azure)
- Machine Learning
- Data Science
- Data Analysis

- Front-end development
- Backend Development
- Big Data Engineering

Work Experience

Giza Systems, New Ciro, Egypt

September 2022 - Present

leading systems integrator in the MEA region, designs and deploys industry-specific technology solutions for asset-intensive industries

Software Engineer - Machine Learning

Recruited to apply the software engineering principles and a variety of software methods like OOP, internet protocols, agile/scrum methodologies, databases, version control, containers, and unit testing to develop end-to-end pipelines including ML models to perform different types of advanced analytics. Also, works in collaboration with data scientists.

- Successfully designed and Implemented low-level software for a variety of different domain projects, by reducing design-related issues while maintaining a high code quality standards.
- Continuously enhanced ML business solution use cases by implementing advanced modeling techniques into pipelines, ensuring user-friendliness and meaningful outcomes and enhancing overall performance.

WE Work Group, Alexandria, Egypt

March 2021 - August 2021

An early-stage startup that provided service and software solutions to clients in the software industry, primarily operating on a project-based model for its clientele.

Software Engineer - Frontend

- Streamlined requirement gathering, reducing design iteration cycles by 50% through dynamic user interface prototypes.
- Enhanced user experience and website performance by optimizing page load time with cutting-edge web

Education

9-month Post-Graduate Degree in AI and Machine Learning

Information Technology Institute (ITI), Smart-Village, Giza • October 2021-July 2022

Bachelor in Computer Science (BCS) - Minor in Software Engineering

Faculty of Computers and Information Technology, Kafr El-Sheikh University, Egypt • October 2017-June 2021

Skills

Python | Javascript | Java | Sklearn | PySpark | SparkML | AutoMl | MlFlow | Supervised/Unsupervised Algorithms | Numerical Optimization | TensorFlow | Keras | Computer Vison (CNN) | Dash "Plotly" | Matplotlib | Seaborn | Power BI | Kibana | SQL | NoSQL (Mongo DB) | Redis | GraphQL | Apache Kafka | Apache Spark | Apache Airflow | Django | Node Js | Redux | Bootstrap | Material UI | Html | CSS | Figma | Linux | Docker | Git | GitHub | Azure repos | Azure DevOps | Trello | AWS Sage Maker

Selected Certifications

Microsoft Power BI Data Analyst Certified Microsoft • 2023

AWS Machine Learning Engineer Nano-degree Udacity • 2022

Data Scientist With Python Track
Datacamp • 2022

Machine Leaning Specialization Coursera • 2023

React Nano-degree Udacity • 2021

Selected Projects

Virtual Assistant - (Django, React)

Developed React-based frontend web pages for a voice interface Virtual Assistant project, incorporating a lip sync model and speech-to-text solutions. Enabled the Virtual Assistant to respond to operator questions.

Automatic Number Plate Recognition (ANPR) - (Flask, JavaScript)

Implemented OCR algorithm for precise license plate reading and led UI/frontend development for seamless user interactions.

Real-time Chat App - (NodeJS, React)

Developed and hosted a real-time chat app using JavaScript, Socket.IO, React, and NodeJS. Designed UI and implemented real-time communication.

Languages

Arabic - Native

English - Professional