



Abdalla Rashed

Applications Engineer

Applications Engineer with expertise in **Full-Stack Development, UI/UX & Brand Design, and Video Editing**. Equipped with a proven technical track in **Computer Vision** R&D applications and is passionate about **Generative AI Research**. Exhibits profound analytical & programming skills and strong knowledge in CS algorithms, data science, & machine learning. Active learner with great flexibility, resilience, and willingness to adapt to abrupt challenges and excels in a highly dynamic work environment.

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WORK EXPERIENCE

Project Engineer - Full-Time TalentEx

08/2023 - Present

Dubai, UAE

talentex.ae | Professional Training and Management Consultancy

Roles & Achievements

- Multi-Disciplinary role in Full-Stack Development, Brand & UI/UX Design, Video Editing, Quality Assurance, IT Assistance & Business Development.
- Solely responsible for the server & CDN setup, website migration, speed optimization, & development of all current & upcoming releases of the company's website at **talentex.ae** as the sole developer in the project.
- Transforming the company's brand from a single wordmark into a full responsive logo, color palette, & digital theme.
- Structured development process with proper design of the wireframes for all current & future updates as well as managing them in an agile feature-driven development process.
- On-going implementation of an in-house LMS system and other multiple core systems as part of the platform's backend as well as automation of reports & certificate generation with integrating various tools & scripting languages (Google Sheets / Python / JavaScript for Adobe Illustrator).
- Development and quality assurance of proposals, training material, and reports in terms of coherence, consistency, and visuals for the training programs.
- Design & auditing of graphical content in proposals, handouts, flyers, and other documents using Adobe Creative Cloud apps.
- High-quality editing & production of promotional/reporting videos using both Adobe Premiere Pro & After Effects, with great satisfaction of our clients from governmental entities.
- Technical assistance in building, setting up, & diagnosis of office devices & PCs.
- Delivery of the core material & presentations of interactive training courses on Generative AI applications in both English & Arabic.

SOFTWARE

Python

PyTorch

Hugging Face

NumPy

Pandas

OpenCV

Flask

Django

Selenium

Tkinter

Git

GitHub

GitLab

CSS

HTML

Bootstrap

JavaScript

C++

PHP

WordPress

cPanel

MySQL

Cloudflare

phpMyAdmin

MATLAB DL & Data Acquisition

MATLAB: App Designer

Adobe Photoshop

Xd

Illustrator

Audition

Premiere Pro

After Effects

Autodesk Inventor

TECHNICAL SKILLS

AI Algorithms

ViTs, CNNs, Object Recognition, Motion Detection & Tracking, Anomaly Detection, Contrastive Learning, Continual Learning.

Robotics

3D Printing, Arduino, Raspberry Pi, Nvidia Jetson, Electrical Power Circuits, PID Control.

Project Management

Agile SDLC, Version Control, Creative Design & Content Development of Technical, Managerial, & Educational Documents & Presentations.

Content Creation

Design of Illustrations, End-to-end Production of Promotional Videos (Direction, Preparation of Assets, Editing & Rendering, Voice-Over).

Web Development

WordPress Lifecycle Dev, Professional Scalable Backend, API Integration, Custom Plugins, Backend Integration with Elementor.

Full-Stack Development

Functional Experience in Relational Databases, Frontend Dev in Both CMS & vanilla JS, Backend Dev with Frameworks/Tools as Flask, Django, & WP PHP.

WORK EXPERIENCE

Technical Advisor - Part-Time Sportic

05/2023 - Present

Abu Dhabi, UAE

sportic.ae | An Innovative startup providing a SaaS solution for local sport facilities.

Roles & Achievements

- Support for the development of internal roadmaps & agile management processes.
- Development of the startup landing website.
- Professional voiceover editing of promotional videos.
- Design of the company's brand including responsive logo, color palette, business cards, & internal-use documents.
- Technical consultation on internal processes.
- Projected towards learning React Native to support the development team.

AI Applications Engineer - Part-Time WaZii

09/2023 - 03/2024

Abu Dhabi, UAE / KSA

wazii.net | An AI-Driven startup providing a SaaS solution for stock traders.

Roles & Achievements

- Contributions to the updates of a Django backend on EC2 to integrate new data delivery and UI features.
- Professional design of the company's upcoming brand & theme.
- Re-design and implementation of an early website release.
- Iteratively improving the user experience and implementing new website updates.

Contact : Naif AlKhunaizi - naif.alkhunaizi@mbzuai.ac.ae

Project Engineer - Contractor Lockheed Martin - Esterline Project

09/2022 - 03/2023

Abu Dhabi, UAE

Roles & Achievements

- Initiation of an R&D program for AI-powered inspection of Foreign Object Debris [FOD] in aircraft engine bays. A prototype was delivered in IDEX 2023.
- Researching advanced computer vision topics including image resynthesis, patch processing, knowledge distillation, and self-supervised learning.
- Delivery of collaborative learning & mentorship sessions for internal and external teams to improve work productivity and introduce them to new tech applications.
- Development of the prototype demo interface, robot routines setup & testing, codebase maintenance, and 3D printing tasks.
- Providing technology & business development consulting.

Contact : Hala Majeed - hala.alzarkani@lmco.com

EDUCATION

B.Sc. in Electrical Engineering | 3.99/4.00 GPA Abu Dhabi University

09/2016 - 09/2020

Abu Dhabi, UAE

PUBLICATIONS

Journal Article

AI-powered health monitoring of anode baking furnace pits in aluminum production using autonomous drones

Author(s)

Tasnim Basmaji, et al.

30 June 2023

doi.org/10.1016/j.engappai.2023.106143

RESEARCH INTERESTS

Multimodal AI

Latent Traversals

Diffusion Models

LLM

INDIVIDUAL PROJECTS

Torch Engine (05/2023 - 06/2023)

- A modular engine, built on top of PyTorch, to provide high-level interface for different vision tasks. Low-level implementation for vision modules are included.
- Link: github.com/r-evaar/torch_engine
- Note: Development started on a private repository

Python Projects (03/2023 - Present)

- An on-going educational collection of mini-projects for learning advanced python concepts
- Link: github.com/r-evaar/python_projects

Generative AI Course | Promo (11/2023)

- Link: youtube.com/watch?v=h3Z3s7PSNcA

Training Programs | Highlights (01/2024)

- Link: youtube.com/watch?v=i8_cXLZ4zk

COURSES

Udemy | Complete SQL and Databases Bootcamp: Zero to Mastery (08/2023)

<https://www.udemy.com/certificate/UC-48923cb5-d078-4729-815e-4d1bc199c0e6/>

Udemy | PyTorch for Deep Learning in 2023: Zero to Mastery (06/2023)

<https://www.udemy.com/certificate/UC-fccdec7a-9ad3-4d69-a108-dd1353875f9a/>

Lazy Programmer | Data Science: Transformers for Natural Language Processing (06/2023 - Present)

30% Complete

Udemy | 100 Days of Code: The Complete Python Pro Bootcamp (01/2023 - Present)

70% Complete

Udemy | Beginning C++ Programming - From Beginner to Beyond (08/2022)

<https://www.udemy.com/certificate/UC-a06c249e-71ad-4221-a952-8380031e7e67/>

WORK EXPERIENCE

AI Engineer - Intern

Lockheed Martin

03/2021 - 06/2022

Abu Dhabi, UAE

Roles & Achievements

- Continuing the development of the AI Aircraft Inspection program.
- Conducting research experiments on machine learning and computer vision topics including object recognition & tracking and continual learning.
- Showcasing projects & technical presentations to executives & VIP guests.

Contact : Hala Majeed - hala.alzarkan@lmco.com

Electrical Engineer - Intern

Abu Dhabi University

06/2020 - 08/2020

Abu Dhabi, UAE

Achievements/Tasks

- Conducting research for social-distance monitoring as well as Kalman filters experiments, lane detection, & behavior cloning for self-driving vehicles.
- Preparing lab manuals for a self-driving course.
- Preparing and testing a course project kit for a self-driving robot using Nvidia Jetson Xavier boards.

LANGUAGES

English - 8.0 IELTS

Full Professional Proficiency

Arabic

Native or Bilingual Proficiency

COURSES

Coursera | Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization (10/2021)

<https://coursera.org/verify/X6UKE864MEC3>


Coursera | Structuring Machine Learning (10/2021)

<https://coursera.org/verify/YBBAWYFDWNT4>

Coursera | Neural Networks and Deep Learning (09/2021)


<https://coursera.org/verify/AV259SPUMM22>

HONOR AWARDS

1st Place award in the 3rd Annual Industrial Robotics Competition (08/2020 - 04/2021) 

Emirates Global Aluminium

- AI-Powered drone for monitoring the operating conditions of aluminum anode baking furnace: Worked on the drone power delivery system & developed a framework for pit detection, visualization, & post-processing.

1st Place award in the 2nd Annual Industrial Robotics Competition (09/2019 - 07/2020) 

Emirates Global Aluminium

- AI robot for detecting temperature abnormalities at aluminum smelters: Developed an autonomous driving framework for the robot.

1st Place in the 3rd Annual ECE Design Project Competition - Judges' Choice (06/2020)

Abu Dhabi University

- Smart shopping solution to assist wheelchair users utilizing a robotic arm for gripping items, automatic barcode detection and scanning system, cart items detection & validation, and a shopping user interface.