

HAMMADA BALLALI

NATIONALITY: SPANISH – RIGHT TO WORK IN THE UK UNDER EU SCHEME

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Experienced IT professional and PhD candidate in Computer Vision with a strong foundation in machine learning and data analysis. Proficient in designing and implementing Python-based solutions, developing ML models, and optimizing workflows for data-driven applications. Skilled in leveraging Python libraries such as TensorFlow, PyTorch, and scikit-learn to build, train, and deploy models for predictive analytics, computer vision, and automation. Experienced in deploying applications on Windows and Ubuntu servers, managing AWS services, and integrating machine learning pipelines into cloud environments. Adept at automating processes using Python scripts and Docker, with hands-on experience in tools like Kafka and Kubernetes. Passionate about AI and machine learning, with a focus on advancing cutting-edge technologies in computer vision to deliver innovative and impactful solutions.

EXPERIENCE

04/2025 – Current

TECHNICAL SPECIALIST L2+ INFRASTRUCTURE ENGINEER

Centred Solutions, Runcorn, UK

- Manage, deploy and update Network and Computing resources.
- Deploying Django applications
- Manage and monitor and update PostgreSQL servers.
- Writing and running Ansible scripts.
- Nginx deployment and troubleshooting.
- Manage IT aspects of servers: DNS, routing, interfaces, firewalls and certificates.
- Customize and run PowerShell and Python scripts.
- Deploy Docker, Kafka, and Kubernetes.
- Assist developer team in ClickUp by updating user stories and testing features.
- Support customers in troubleshooting application issues, as well as monitoring tickets in Odoo.

10/2024 – Current

CODING EXPERTISE FOR AI TRAINING

San Francisco Bay Area (Remote - Freelance)

- Crafting and answering questions related to computer science in order to help train AI models
- Evaluating and ranking code generated by AI models

06/2023 – 04/2025

APPLICATION SUPPORT SPECIALIST

ZOLL Medical, Runcorn, UK

- Deploy and install applications on Windows and Ubuntu servers.
- Handle Active Directory and LDAP communications with application servers.
- Manage and monitor Windows EC2 instances for IIS and SQL servers, as well as Linux EC2 instances in AWS hosting various applications.
- Monitor costs and services in AWS.
- Manage IT aspects of servers, including DNS, routing, interfaces, firewalls, security groups, and certificates.
- Customize and run PowerShell and Python scripts.
- Support Company SDK use for Android, SWIFT, and .NET.
- Deploy Docker, Kafka, and Kubernetes.
- Support customers in troubleshooting application servers and SQL servers, as well as monitoring ticketing systems Zendesk/Salesforce/Jira
- Pre-sales support within the Sales Engineering Team

10/2022 -06/2023

TECHNICAL ASSISTANT

Liverpool Hope University, Liverpool, UK

- Assisted primary mathematics department professors in research by processing and presenting data using Tableau, Power BI, and Excel. Created presentations with PowerPoint to effectively communicate findings.

EDUCATION

02/2025 – CURRENT

PHD COMPUTING, UNIVERSITY OF WALES TRINITY SAINT DAVID

- Deep Learning-Based Synthesis of 360° Virtual Reality Photorealistic Scenes from Monocular 2D Videos

10/2024

MASTER OF SCIENCE IN SOFTWARE ENGINEERING AND ARTIFICIAL INTELLIGENCE,
UNIVERSITY OF WALES TRINITY SAINT DAVID

- Dissertation in Deep Learning Model for 12 Lead ECG classification
- Coursework Cloud Computing Docker Compose Deployment of Django/React application in AWS.
- Coursework in AI Meta Ensemble Deep Learning Model for Sentiment Analysis
- Coursework in Software Engineering Agile Plan Conception and Design
- Grade: Distinction

07/2023

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, LIVERPOOL HOPE UNIVERSITY

- Dissertation in Machine Learning: Bellman Ford and Dijkstra Comparison
- Coursework in 3D Unity C#
- Coursework in Machine Learning
- Coursework in MERN stack
- Coursework in LUA
- Grade : 1st Class A+

RESEARCH AND PUBLICATIONS

12/2024

- Paper Title: **An experimental comparison of the effect of text pre-processing for sentiment analysis using ensemble model**
Authors: Hammada Ballali Ebbi, Mohammed Talha Sajidhusein Vasanwala and Seena Joseph
Presented in **International Conference on Responsible Artificial Intelligence (ICRAI – 2024)** - https://www.youtube.com/watch?v=_XkmpI8TMM8

SKILLS

- Google Colab/Jupyter
- Technical documents comprehension
- Customer support needs assessment
- Git/Github
- Salesforce/ Zendesk/Jira
- Python/Keras/TensorFlow/PyTorch
- Power BI/ Tableau/ Excel
- Web Development Django/React
- Databases Windows SQL/Mongo Db
- Could AWS/Azure - Docker/Kubernetes

LANGUAGES

- Spanish: Native
- Arabic: Native
- English: Advanced C1
- French: Intermediate B1

CERTIFICATIONS

- AWS Cloud Practitioner
- JPMorgan Software Engineering VEP

LINKEDIN, GITHUB AND WEB PORTFOLIO

- LinkedIn: <https://www.linkedin.com/in/hammada-ballali-ebbi-4aa5091ba/>
- <https://github.com/HammadaBE>
- Web Portfolio: www.hammadaballali.com