Ashref Lawgaly

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Personal Profile

Past: I hold degrees in Computer Science, which has given me a strong foundation in algorithms, databases, SQL, and various programming languages. My journey in coding started in 2001 during my Bachelor of Science program, and I have continued to code in different languages ever since. I have developed small-scale applications and contributed to team-based projects throughout this time.

Present: I am participating in a twelve-week intensive Digital Skills Bootcamp in level three Software Development with JustIT Training. I aim to improve my existing coding skills and gain new ones to advance my development career. I have completed several projects using Python, JavaScript, CSS and HTML, which I have showcased in my GitHub portfolio.

Future: I plan to obtain more coding skills and experience by getting a junior software developer or apprentice job. I am eager to take on challenging roles that involve creating scalable, user-friendly applications, making a meaningful impact in the tech industry, and identifying optimal solutions

Key Skills

Technical Skills: Proficient in some programming languages, such as Visual Basic Python, MATLAB, C/C++, Java, and web programming (HTML, CSS, and JavaScript), and a good knowledge of database design (MySQL).

Soft Skills: Critical thinking and problem-solving, effective communication, prioritization and time management, team collaboration and leadership, adaptability and resilience in learning new programming languages, Attention to detail, and creativity in approaching tasks.

Training and Education

❖ **October 2024 -Present   Just IT Training Ltd, London**
Digital Skills Bootcamp: Software Development
A twelve-week intensive bootcamp covering the fundamentals of Software Development.

- Development of HTML.
- Developed a web-based product.
- Database design.
- Introduction to HTML/JavaScript/CSS.
- Built a product using Python.
- jQuery, Git and GitHub.

❖ **03/2012-02/2017   Northumbria University, United Kingdom.**
PhD in Computer Science and Digital Technologies.

Core Modules: Artificial Intelligence (AI), Machine Learning, Deep Learning, and data processing techniques.

Languages: **MATLAB**

Final Year Project: Thesis Title: Digital Camera Identification Using Sensor Pattern Noise for Forensics Applications.

❖ **08/2010-10/2011   Northumbria University, United Kingdom.**
Master of Science in Software Engineering (First-Class Honours with Distinction).

Core Modules: program Design & implementation using Java, project management, systems security management and System Analysis and design with UML.

Languages: **Java, MATLAB**

Final Year Project: Image Forgery Detection using Digital Camera Fingerprint. My project focused on image processing and machine learning techniques.

❖ **08/2007-8/2008**   **Garyounis University, Benghazi, Libya.**
                                    Postgraduate Diploma in Artificial Intelligence.

Core Modules: Artificial Neural Networks, Data Clustering Analysis, Expert Systems, Fuzzy Logic and Systems, and Genetic Algorithms.

Languages: **C++, MATLAB, Java.**

❖ **08/1998-8/2001**   **Garyounis University, Benghazi, Libya.**
                                    BSc in Computer Science.

Core Modules: Computer Languages and Programming, Advanced Programming, Real-Time Systems, Object Oriented Programming.

Languages: **C/C++, Visual Basic, Java.**

Employment History

11/2023- present: **Exam Invigilator (Part-time).**
                                   Newcastle College, Newcastle Upon Tyne, UK.

Key duties:
- Actively supervise students during the exam to ensure a focused and calm environment.
- Document any irregularities or incidents in the exam report.
- Verify the materials and seating arrangements before the exam begins.
- Brief students on the timing and the exam rules of the exam.

Skills obtained:
- Organizational skills, attention to detail, and ability to manage pressure. Good communication and interpersonal skills to involve candidates fairly and impartially

06/2023- present: **Ground Safety Steward (Part-time).**
                        Newcastle United Football Club, Newcastle Upon Tyne, UK.

Key duties:
- Monitoring and managing crowd movement and density in viewing areas to prevent overcrowding while identifying and reporting potential hazards.

Skills obtained:
- Teamwork, Attention to detail, calmness under pressure.

12/2019-05/2023:   **Senior Research Assistant (Full-time, Fixed contract).**
Department of Computer and Information Sciences, Northumbria University, Newcastle Upon Tyne, UK.

Key duties:

- I designed and developed video forensic tools for processing smartphone videos. These tools could extract evidential information and identify the source smartphone's camera, including its make and model. Additionally, I focused on detecting and locating forgeries in manipulated videos.
- I assisted my line manager with PhD supervision and taught lab sessions on Intelligent Systems, Machine Learning, and Computer Vision,
- Marking assignments Key achievements include publishing seven journal papers and ten conference papers. Please see my publication list in my portfolio; the link will be added.

Skills obtained:
   Improving my programming skills, Proficiency in software development and debugging, understanding of algorithms, machine learning, and artificial intelligence, and Competence in writing research papers and presenting results

6/2018-11/2019:   **Research Assistant (Fixed contract).**
Department of Computer and Information Sciences, Northumbria University, Newcastle Upon Tyne, UK.

- Designed and developed algorithms for medical image analysis and automated disease diagnosis systems using image processing, machine learning, and deep learning.

02/2017- 06/2018:   **Ground Safety Steward (Part-time).**
                          Newcastle United Football Club, Newcastle Upon Tyne, UK.

- Monitoring and managing crowd movement and density in viewing areas to prevent overcrowding and identify and report potential hazards

Interests, Hobbies

Along with my passion for software development, I enjoy solving problems on coding platforms such as LeetCode and spending time on the Code Academy app to expand my coding knowledge. Outside of technology, I am keenly interested in photography, which allows me to balance my analytical and creative thinking. I also like cycling and participating in team sports like football and basketball.

Additional Info:

- I have full permission to work in the UK without needing a sponsor letter for my work visa application.
- I have a Full Driving licence.
- I have a valid DBS certificate.

References available upon request