DABIR HASAN RIZVI

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| **Software Developer** |
| **Location –** Leeds\* (willing to relocate) |
| **Email -** [dabir.rizvi@gmail.com](mailto:dabir.rizvi@gmail.com) |
| **Phone -** +44 (0) 7737 906374 |
| **Links -** [Portfolio](https://www.dabirrizvi.co.uk/), [LinkedIn](https://www.linkedin.com/in/dabir-hasan-rizvi-738a83185/), [GitHub](https://github.com/dabirrizvi) |

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| **PROFESSIONAL SUMMARY** |
| Result-driven Software Developer with strong academic credentials and over a year of experience working in agile teams to develop web-based applications. Proficient in object-oriented programming with a strong research interest in computer vision. Technologically savvy and with a drive to excel, I am eager to contribute effectively to the organisation’s success. |

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| **WORK EXPERIENCE** |
| **Junior Web Developer, Net World Sports, Wrexham**  07/2022 – 06/2023   * Built responsive and reusable Vue.js front-end components, optimising performance within a micro-service architecture. * Enhanced user experience for the company’s blog website, collaborated with content and SEO teams to implement responsive design. * Streamlined workflows across departments by creating a Chrome extension, integrating APIs to address pain points and increase productivity. * Employed agile methodology to migrate 40+ e-commerce stores from Magento 1 to Magento 2, improving website performance and customer experience. * Tools and Technologies used: JavaScript, Gulp, PHP, jQuery, PostgreSQL, Vue.Js, Magento 2, WordPress, Nginx, HTML, CSS, Sass. |
| **Java Programmer (Internship), Racks & Rollers | Storage Technologies & Automation, Bengaluru**  01/2020 – 07/2020   * Developed a scalable Pick-to-light system GUI, aligning with technical standards. * Engaged in the complete software development life cycle, encompassing performance analysis, design, development, and testing, to deliver an optimal user experience and ideal functionality. * Leveraged Scrum and Test-Driven Development (TDD) to streamline the development process and ensure high-quality software delivery. |

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| **EDUCATION** |
| **MSc. Advanced Computer Science (with Integrated Year in Industry), Aberystwyth University**  09/2021 – 12/2023   * **Relevant Modules:** Machine Learning for Intelligent Systems, Modelling Managing and Securing Data, Statistical Concepts Methods and Tools, Agile Software Development Project. |
| **Bachelor of Engineering in Electronics and Communication Engineering, CMR Institute of Technology**  08/2016 – 08/2020   * **Relevant Modules:** Programming in C and Data Structures, Python Application Programming, Operating Systems, Network and Cyber Security, Programming in Java. |

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| **SKILLS** |
| **Programming Languages:** JavaScript, jQuery, Java, Python, C, C++, C#, R, PHP, HTML, CSS |
| **Frameworks and Databases:** Vue.Js, .NET, WordPress, Node JS, React.js, Laravel, Bootstrap, PostgreSQL, MySQL. |
| **DevOps and Methodologies:** Git, Docker, Jira, Agile, Google Cloud Platform. |
| **Machine Learning and Neural Network:** Regression, LSTM, TensorFlow, Random Forest, SVM, ANN, CNN, RNN. |
| **Computer Vision:** Image Processing, OCR, Object Detection, Image Classification. |
| **Data Science:** Data Analysis, Feature Engineering, Statistical Modeling, Predictive Modeling. |
| **Soft Skills:** Communication, Adaptability, Problem-solving, Teamwork, Time Management. |

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| **CERTIFICATION COURSES** |
| **Introduction to DevOps, IBM** |
| **Vue- The Complete Guide (inc. Router & Composition API), Udemy** |
| **Machine Learning, Stanford Online** |
| **Deep Learning Specialization, DeepLearning.AI** |
| **Introduction to C# Programming and Unity, University of Colorado** |
| **Game Design and Development Specialization, Michigan State University** |

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| **PERSONAL PROJECTS** |
| **Robot Movement Automation with Computer Vision.**   * Developed a Robot Movement Automation System using Computer Vision and Digital Image Processing, featuring SIFT algorithm implementation via OpenCV, Unity 3D integration with Vuforia SDK for AR-like feature detection, and Arduino IDE for motor control, enabling efficient object tracking and following target within a Wi-Fi network range. |
| **Prediction of Parking areas availability from parking dataset using AI/ML Models.**   * Implemented AI/ML techniques for parking availability prediction using Santander's on-street sensor data. * Applied LSTM and Random Forest models to assist drivers in Santander by forecasting parking availability for the upcoming hour and enhancing urban mobility through data-driven insights. |
| **Prediction of likelihood of Blood-Brain Barrier (BBB) penetration for a chemical compound.**   * Secured 1st place in Aberystwyth University's Kaggle challenge with an accuracy of 90.603%, utilising an SVM model. * Showcased expertise in feature extraction, model training and precision measurement using the AUC metric. |
| **Detecting cardiac arrhythmia using single lead ECG recordings.**   * Achieved an accuracy of 82.947% in a Kaggle challenge, emphasising cardiac arrhythmia classification using the PhysioNet Computing in Cardiology Challenge 2017 dataset. * Employed random forest and CNN for pattern detection. |
| **Speech Recognition.**   * Designed a MATLAB based speaker recognition system using Fast Fourier Transform for feature extraction. Aims to identify speaker based on speech wave characteristics such as pitch. * Demonstrating practical applications of signal processing and pattern recognition. |
| **AR Solar System**   * Engineered an Android application by seamlessly merging Android Studio and Unity 3D, enhanced with Augmented Reality (AR) using Vuforia. * Provided the ability to the users to scan a predefined image, activating camera permissions to reveal an AR solar system. |