DABIR HASAN RIZVI

**Software Developer**

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**Links -** [Portfolio](https://www.dabirrizvi.co.uk/), [LinkedIn](https://www.linkedin.com/in/dabir-hasan-rizvi-738a83185/), [GitHub](https://github.com/dabirrizvi)

**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.

**EMPLOYMENT HISTORY**

**Junior Web Developer, Net World Sports, Wrexham**

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* 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, collaborating 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**

0 1 / 2 0 2 0 - 0 7 / 2 0 2 0

* 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.

**EDUCATION**

**MSc. Advanced Computer Science (with Integrated Year in Industry), Aberystwyth University**

0 9 / 2 0 2 1 - 0 9 / 2 0 2 3

**Bachelor of Engineering in Electronics and Communication Engineering, CMR Institute of Technology**

0 8 / 2 0 1 6 - 0 8 / 2 0 2 0

**SKILLS**

**Programming Languages**: JavaScript, Java, Python, C, C++, C#, R, PHP, HTML, CSS.

**Frameworks and Database:** Vue.Js, .NET, WordPress, Magento 2, Bootstrap, Tailwind CSS, PostgreSQL, MongoDB, MySQL.

**DevOps and Methodologies:** Git, Docker, Jira, Agile, Google Cloud Platform.

**Machine Learning and Neural Network:** Regression, LSTM, Random Forest, SVM, ANN, CNN, RNN.

**Computer Vision:** Image Processing, OCR, Object Detection, Image Classification.

**Natural Language Processing (NLP):** Text Classification, Language Modeling.

**Data Science:** Data Analysis, Feature Engineering, Statistical Modeling, Predictive Modeling.

**Soft Skills:** Communication, Adaptability, Problem-solving, Teamwork, Time Management.

**CERTIFICATION COURSES**

**Introduction to DevOps, IBM**

**Vue- The Complete Guide (inc. Router & Composition API), Udemy**

**Machine Learning, Stanford Online**

**Deep Learning Specialisation, DeepLearning.AI**

**Introduction to C# Programming and Unity, University of Colorado**

**Game Design and Development Specialization, Michigan State University**

**PROJECTS UNDERTAKEN**

**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. Showcasing 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. Users scan a predefined image, activating camera permissions to reveal an AR solar system.