

DABIR HASAN RIZVI

Software Developer
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Links - Portfolio, LinkedIn, GitHub

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.

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, Laravel, PostgreSQL, Vue.js, Magento 2, WordPress, Rest API, HTML, CSS, Sass, Bootstrap.

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.

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.

SKILLS

Programming Languages: JavaScript, TypeScript, jQuery, Java, Python, C, C++, C#, R, PHP, HTML, CSS

Frameworks and Databases: Vue.js, Node.js, Laravel, WordPress, Firebase, Magento 2, Bootstrap, PostgreSQL.

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.

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

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.