Dabir Hasan **Rizvi**

Software Developer | Portfolio: dabirrizvi.co.uk

Location: Sheffield* (willing to relocate) Email: dabir.rizvi@gmail.com Phone: +44 (0) 7737 906374 Links: LinkedIn, GitHub

Professional Summary

Dynamic and results-driven Software Developer with over two years of experience in agile environments, specialising in machine learning and web-based application. Proven track record of enhancing user experience and increasing engagement through innovative solutions. Skilled in object-oriented programming and passionate about computer vision. Adept at collaborating with cross-functional teams to deliver high-quality software solutions. Committed to leveraging technical expertise and proactive problem-solving skills to drive organisational success and innovation.

Skills

Programming Languages:	JavaScript, jQuery, Python, Java, R, PHP
Frameworks and Databases:	Vue.js, Alpine.js, Node.js, Tailwind CSS, Laravel, Magento 2, Hyvä, MongoDB, PostgreSQL
DevOps and Methodologies:	Git, Docker, Jira, Agile, Google Cloud Platform
APIs and Technologies	GraphQL, Elasticsearch, Restful APIs, Knockout.js, Webhooks
Data Science and Machine Learning:	Data Analysis, Feature Engineering, Predictive Modelling, Regression, TensorFlow, PyTorch
Soft Skills:	Communication, Adaptability, Problem-solving, Teamwork, Time Management

Work Experience

Magento Developer July 2024 – Present
Reach Studios Ltd., Sheffield, United Kingdom

- **Innovative Custom CMS Solutions:** Collaborated closely with stakeholders to gather requirements, present concepts, and deploy custom CMS blocks for Corney & Barrow. Enhanced site performance, usability, and back-end management.
- **Customised B2B Magento Platform with PunchOut Integration:** Building a scalable B2B Magento solution to replace a legacy SAP system, using customer group–based pricing, catalogs, and workflows, with integrated PunchOut for seamless client procurement.
- **Hyvä Storefront & Module Integration:** Integrated a vape store using the Hyvä frontend, integrating Amasty one-step checkout and following Magento best practices for performance and maintainability.
- **Advanced Features & System Enhancements:** Worked with Elasticsearch for improved search performance, built custom Magento widgets, implemented GraphQL endpoints, and applied critical security patches to maintain a secure and robust platform.

Junior Web Developer July 2022 – June 2023
Net World Sports, Wrexham, United Kingdom

- **Optimised Front-End Development**: Built responsible and reusable Vue.JS front-end components, enhancing performance within a micro-service architecture and improving overall user experience.
- **Increased user engagement:** Revamped the company's blog website, resulting in a 40% increase in user engagement by implementing responsive design and collaborating closely with content and SEO teams.
- **Boosted Productivity:** Developed a Chrome Extension that integrated various APIs, leading to a 60% boost in departmental productivity by streamlining workflow.
- **Ensured High Code Quality:** Conducted code reviews, maintained comprehensive documentation, and adhered to best practices to ensure high code quality.
- **Migrated E-commerce store:** Employed agile methodology to migrate 40+ ecommerce stores from Magento 1 to Magento 2, resulting in a 30% reduction in page load times, an improved lighthouse score by 15%, and an enhanced customer experience.

Java Programmer (Internship) January 2020 – July 2020
Racks & Rollers | Storage Technologies & Automation, Bengaluru, India

- **Developed Scalable Solutions:** Created a scalable Pick-to-light system GUI, enhancing operational efficiency and user experience.
- **Full Development Lifecycle:** Engaged in the complete software development lifecycle, from performance analysis and design to development and testing, ensuring optimal functionality and user satisfaction.
- **Improved Client Satisfaction:** Participated in client meetings to gather requirements and present progress updates, increasing client satisfaction and operational efficiency by 20%.
- **Enhanced Software Quality:** Leveraged Scrum and Test-Driven Development (TDD) methodologies to streamline the development process, ensuring high quality software delivery and reducing bug occurrence by 30%.

Education

MSc. Advanced Computer Science (with Integrated Year in Industry) September 2021 – December 2023
Aberystwyth University, United Kingdom

Bachelor of Engineering in Electronics and Communication Engineering August 2016 – August 2020
CMR Institute of Technology, Bengaluru, India

Personal Projects

Prediction of Parking areas availability from parking dataset using AI/ML Models

- Developed a system using Santander's on-street sensor data and machine learning techniques (LSTM, Random Forest) to forecast parking availability with over 77% accuracy, enhancing urban mobility by providing reliable parking predictions.

Prediction of likelihood of Blood-Brain Barrier (BBB) penetration for a chemical compound

- Secured 1st place in a Kaggle competition by designing an SVM model with 90.603% accuracy to predict the likelihood of chemical compounds penetrating the blood-brain barrier. This model aids in accelerating drug discovery processes.

Detecting Cardiac Arrythmia using single led ECG recordings

- Utilised PhysioNet's dataset to create a model for arrhythmia detection, achieving 82.947% accuracy through random forest and CNN models. This project contributed to improving the efficiency of arrhythmia diagnosis and patient monitoring.

Agile Software Development Project

- Led an agile team as the product owner to develop a website that helps students cook healthy and easy recipes. The site provided nutritional values based on ingredients and allowed users to create and publish their own recipes. This project improved user engagement and fostered a collaborative cooking community.

Robot Movement Automation with Computer Vision

- Designed a system using OpenCV and the SIFT algorithm for object tracking and target following within a Wi-Fi network. The project integrated Unity 3D with Vuforia SDK and Arduino IDE for motor control, enhancing automation in robotics.

Speech Recognition

- Created a MATLAB-based speaker recognition system using Fast Fourier Transform for feature extraction. This project aimed to identify speakers based on speech wave characteristics such as pitch, leveraging advanced signal processing techniques to enhance security and user authentication.

Certification Courses

The Web Developer Bootcamp 2024 January 2024
Colt Steele | Udemy

Introduction to DevOps January 2023
IBM | Coursera

Deep Learning Specialization December 2022
DeepLearning.AI | Coursera

Vue – The Complete Guide (inc. Router & Composition API) August 2022
Maximilian Schwarzmüller | Udemy

Machine Learning July 2021
Stanford Online | Coursera

** Referees available on request.*