Veda **Salkar**

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Professional Summary

Software Engineer with a master's in computing and over 6 years of experience in agile web development, specializing in frontend technologies and WCAG-compliant solutions. Proficient in React JS, Tailwind, JavaScript, PHP and Python committed to driving impactful, cross-browser, and device-standard compliant web solutions.

Education

MSc in Computing (with industrial placement)   Sept 2022 – July 2024
University of Huddersfield, England, United Kingdom   Grade: Distinction

Bachelor of Computer Engineering   July 2015 – May 2019
Agnel Institute of Technology and Design, Goa, India   Grade: 2.1

Skills

Frontend: JavaScript, HTML5, CSS, Markdown, Bootstrap, Vue JS, SASS, Tailwind, React JS, Angular JS, Next JS

Backend: PHP, Java, Python, Django

Version Control & Deployment: Git, CI/CD pipelines

Web Accessibility: WCAG compliance, Cross-browser/device compatibility

Database: MySQL, PostgreSQL, MongoDB

Miscellaneous: REST API, OOPS, MVC Design Pattern, Software Development Life Cycle (SDLC), WordPress, Data Mining, Machine Learning, Photoshop

Soft Skills: Effective Communication, Time Management, Team Collaboration, Leadership, Problem Solving, Documentation

Work Experience

Research Officer| University of Huddersfield, United Kingdom   **Mar 2025 – Present**

- **Designed and developed Data Analytics for Smart Workshop**, software a modular, scalable analytics platform providing real-time and historical insights into workshop operations, significantly improving visibility of machine performance, utilisation, and safety compliance across the university's engineering facilities.

- **Built a dynamic dashboard builder** enabling engineers and operators to create, configure, and reuse custom data visualisations (graphs and stat cards) without developer intervention, reducing analysis time and increasing self-service data access across teams.

- **Implemented real-time multi-machine analytics** using time-series sensor data (temperature, vibration, electrical current, airflow), enabling proactive monitoring, anomaly detection, and data-driven maintenance decisions.

- **Engineered a configuration-driven architecture (JSON-based)** allowing rapid onboarding of new machines, sensors, and metrics without code changes, significantly improving system scalability and long-term maintainability.

- **Integrated workshop scheduling and booking data (ATMAS)** with live machine analytics, allowing users to correlate machine usage, operator activity, and performance data, improving resource planning and operational efficiency.

- **Developed a snapshot and annotation feature** allowing users to capture dashboard screenshots, add contextual notes, and retain visual evidence for fault analysis, reporting, and future reference—improving knowledge retention and auditability.

- **Developed remote airflow valve control functionality** with secure access and real-time synchronisation, enhancing workshop safety by ensuring proper ventilation before and during machine operation.

- **Contributed across the full software lifecycle**, from requirements gathering and proof-of-concept development to production deployment, documentation, and iterative enhancement based on stakeholder feedback.

- **Enhanced and extended ATMAS functionality** based on prior placement work, ensuring continuity, improved robustness, and deeper integration with research and operational workflows across the organisation.

Software Engineer| Shop and Bakery Equipment Ltd, United Kingdom   **May 2024 – Mar 2025**

- Overseeing the maintenance and optimization of OpenCart eCommerce platforms for multiple sites, enhancing system performance and user satisfaction.
- Implementing bespoke customizations to meet unique client requirements, improving customer engagement and retention.
- Utilizing PHP, MVC architecture, and MySQL to develop scalable, high-performance web applications.

Research and Development Engineer (Placement) | University of Huddersfield   **Oct 2023 – May 2024**

- **Developed WCAG-compliant Code**: Collaborated on the development of Automated Test Management and Asset Scheduling software (ATMAS), ensuring accessibility and usability across all browsers. This led to an estimated 40% increase in workflow efficiency, a 30% reduction in errors, and a 50% improvement in asset tracking accuracy.
- **Bootstrap**: Used Bootstrap for responsive design, enhancing user experience.
- **Software and Tool Development**: Contributed to the development and maintenance of software tools for the ECPMG group at The University of Huddersfield, including high quality code documentation and user manuals.
- **Problem Diagnosis and Resolution**: Diagnosed complex technical issues and implemented solutions to improve asset tracking accuracy and workflow efficiency.
- **Release Lifecycle Management**: Managed code development from Proof of Concept (PoC) to production, ensuring seamless transitions through different stages
- Contributed to a research project by literature reviewing and comparing 3D mesh model conversion tools for digital twinning, to advance university research capabilities.

Frontend Developer| Trellissoft Engineering Services Pvt Ltd.   **Apr 2022 – Aug 2022**

- **Dynamic Web Applications**: Developed applications using Angular JS and React JS, creating seamless user experiences and improving business processes.
- **Team Collaboration**: Worked with the team to set clear goals and provide feedback, contributing to increased productivity and project delivery efficiency.
- **Knowledge Sharing**: Fostered a collaborative environment, sharing knowledge and best practices with team members and supporting ongoing learning.
- **Deadline Prioritization**: Effectively prioritized work with conflicting deadlines, ensuring timely completion of tasks.

Frontend Developer | Team Inertia Technologies   **Oct 2019 – Mar 2022**

- **Cross-Browser Compliant Code**: Utilized HTML5, CSS, JavaScript, and Bootstrap to optimize web designs and CMS, ensuring fast load times and improved user experience.
- **Stakeholder Engagement**: Engaged with stakeholders to develop user-focused application specifications and supported user-centered design.
- **Client Relations**: Strengthened client relationships through exceptional support, leading to increased repeat business and referrals.
- **UI/UX Translation**: Translated UI/UX wireframes into high-quality, responsive code, enhancing user engagement and satisfaction.

Projects

Vee Vee

- Develop the Vee Vees Educational Services website for an educational consultant in Canada, creating engaging digital content to communicate services and support international student outreach. (https://veevees.ca/)

Muscle Mind Stories

- Developed and designed a brand website, creating visual layouts and digital content to establish online presence and audience engagement. (www.musclemindstories.com).

Personal Website

- Built a personal portfolio using React.js, Tailwind CSS, Framer Motion, and GSAP libraries, enhancing JavaScript development skills and exploring animation techniques to improve user interaction (www.salkarveda.com).

Ramjan Interiors
- Designed and developed a portfolio website using HTML, CSS, JavaScript, PHP, and MySQL, helping the business establish an online presence and increase lead generation (www.ramjaninteriors.com).

Automated Test Management and Asset Scheduling System (ATMAS)
- **WCAG Compliance**: Developed a web-based platform using HTML, CSS, JavaScript, PHP, and MySQL within MVC architecture, integrating asset booking and test plan scheduling.
- **Enhanced Efficiency**: Implemented features to boost operational efficiency, including asset inventory management and intelligent test plan creation.
- **Technical Research**: Conducted a thorough review of programming languages, databases, and security to select the best technologies for ATMAS.

Published paper on Detection and classification of Brain Tumor using Naïve Bayes and J48 Algorithm
The International Journal of Computer Science Engineering and Information Technology Research (IJCSEITRDEC20194)
- **Advanced Algorithms:** Developed a system using image processing and data mining algorithms to improve tumor malignancy classification, adhering to research guidelines and precise documentation standards.

Achievements

Accountability Panellist   **Sept 2023 – June 2024**
Huddersfield Student Union at The University of Huddersfield, England, UK
Performance Evaluation: Evaluated and ensured the performance of Student Union officers aligned with student welfare objectives, demonstrating a commitment to inclusivity and community engagement.

Academic Representation for MSc Computing Course   **Sept 2022 – Sept 2023**
The University of Huddersfield, England, UK
Liaison Role: Acted as a liaison between students and faculty, enhancing communication and promoting a positive learning environment.

Hospitality Committee Member   **June 2017 – Apr 2018**
IET Chapter at Agnel Institute of Technology and Design, Goa, India
Event Management: Demonstrated management and leadership quality as a vital member of the organizing committee for a college-level event, contributing to its successful execution.

Google Developer Member   **June 2016 – Apr 2017**
GDG Goa at Agnel Institute of Technology and Design, Goa, India
Educational Leadership: Took charge of organizing team meetings for juniors and cross-stream students, showcasing leadership in educational event planning, and fostering collaboration among participants.

Certification

- Vue.js | LinkedIn - Apr 2024
- Oracle Java Certification | LinkedIn - Apr 2024
- React.js Essential Training | LinkedIn - Apr 2024
- JavaScript Language | LinkedIn - Mar 2024
- Change Management Skills | Live & Learn Consultancy - Oct 2023
- Python Quick Start | LinkedIn - Jan 2023
- Angular JS | LinkedIn - Dec 2022

Interests

Travelling, Baking, Sketching, Gardening, Music, Self-Improvement