Mukundhan Mohan

Software Engineer

Leeds, United Kingdom | +44-7778106348 | **mukundhan140@gmail.com** |**LinkedIn**

www.mukundhan-mohan.com

SUMMARY

Software Engineer with 4+ years of professional experience and an MSc in Advanced Computer Science, specialising in mobile and web application development, AI/NLP integration, and applied system design. Experienced in research-informed technical solutions and translating academic knowledge into real-world organizational impact. Strong background in cross-platform mobile development, RESTful system integration, and AI-driven text analytics, well aligned to collaborative, research-driven software engineering environments.

EDUCATION

MSc in Advanced Computer Science – University of Leeds   2023 - 2024
Dissertation: Emotion Detection from Text using NLP & Machine Learning

Designed and implemented an **NLP-based emotion detection system** using Python. Applied machine learning techniques including preprocessing, feature extraction, model training and evaluation. Demonstrated applicability to **emotion-aware chatbots and decision-support systems**.

B. Tech Computer Science Engineering – Sri Shakthi Institute of Engineering   2017 - 2021

TECHNICAL SKILLS

Mobile & Front-End	Backend & Integration	AI & Data	Cloud & DevOps
• Ionic (Angular), Angular • HTML5, CSS3, JavaScript	• PHP, Laravel • RESTful APIs • MySQL, NoSQL	• Python • NLP, Emotion Detection • Machine learning model evaluation (precision, recall, F1-Score)	• AWS • Docker, Kubernetes • GIT, JIRA

PROFESSIONAL EXPERIENCE

Senior Web Developer   **2021 - 2023**
Dsignz Media

- **Led Core Project Development**: Directed development on 5 core projects, applying in-depth technical knowledge and Agile methodologies to ensure timely and successful deliveries.
- **Improved Conversion Rates**: Introduced innovative solutions and optimizations, resulting in a significant improvement in conversion rates across platforms.

PHP Developer   **2025 - Present**
Involution Brand Partners, Leeds

- **Backend PHP Developer**: Contributed to cross-functional team collaborations to streamline project delivery, resulting in enhanced efficiency and increased client satisfaction.
- **Enhanced Digital Solutions**: Applied innovative ideas and technical strategies to improve digital solutions, resulting in increased efficiency and user satisfaction.

PROJECTS

Digital Ordering & Workflow Management Platform   **2025**

- **Designed and developed** a full-stack digital ordering and workflow management system supporting real-time order processing and operational tracking.
- **Built responsive web and mobile-friendly interfaces** using modern front-end frameworks to support intuitive user interaction across devices.
- **Implemented RESTful backend services** to manage orders, user roles, notifications, and system workflows.
- **Optimized system performance and data handling,** improving reliability and scalability for high-volume transactional usage.
- **Collaborated closely with stakeholders** to translate business processes into robust technical solutions, supporting operational efficiency and future automation.
- Designed with extensibility for **AI-driven analytics, automation, and decision-support dashboards**.

E-Booking Website for Timeshare Rentals **2023**
- **Lead a Team of 5**: Spearheaded a team of developers to create a robust e-booking platform.
- **Developed Core Features**: Co-ordinated and implemented key functionalities like Elasticsearch, CMS.
- **Increased Conversion Rate**: optimized site performance, resulting in an **85%** increase in platform conversion rates.

E-Rental Agency with Property Management Services Website **2023**
- **Enhanced Search Functionality**: Integrated Elasticsearch, improving search speed and accuracy, contributing to a **30%** increase in online conversions.
- **Optimized Database Architecture**: Designed and improved a scalable database architecture, supporting efficient property listings and management services. resulting in a **70%** improvement in page speed.
- **Led Comprehensive Development in Agile Environment**: Developed all areas of the project using Agile methodologies, playing a crucial role in **90%** of the project's upscaling.
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Geo-Site for General Practitioners **2023**
- **Authored Full Software Development Lifecycle**: Led the project from inception to deployment, ensuring all phases of the SDLC were followed with CI/CD.
- **Revamped Advanced Mapping Features**: Enhanced user experience with interactive geo-mapping to locate practitioners globally with content management system.
- **Ensured Robust Data Security**: Conducted stringent security measures to protect sensitive user data and maintain compliance with global data protection regulations..

KNOWLEDGE TRANSFER & COLLABORATION

Experienced in translating research and technical solutions into operational systems through documentation, training, and stakeholder engagement.

References available upon further inquiry.