Rohit Vishwakarma

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PROFILE

Aspiring Software Engineer with a Master's in Computer Science and hands-on experience in full stack development. Skilled in creating data-driven solutions, developing responsive web applications, and working within Agile teams. Passionate about building scalable software and continuously expanding my technical skills to meet the demands of dynamic tech environments.

PROJECTS

1. South Wales Social Well-Being Survey (Final Dissertation)
Designed and developed a scalable, full stack web application prototype to digitize and streamline the social well-being survey process, transitioning from traditional pen-and-paper methods to a responsive digital format. This project improved data accessibility, automated data collection, and enhanced user experience for researchers assessing social well-being in South Wales.

- Tech Stack: MongoDB, Express.js, React, Node.js (MERN)
- Skills: Full Stack Development, RESTful API, Data Handling, Scalable Architecture
- GitHub Repo: https://github.com/rsv13/Survey
- Live Demo: https://survey-jekh.onrender.com/

2. Password Manager
Developed a secure password management application in Java with a focus on encryption, data security, and user authentication. This application utilized encryption algorithms to ensure data confidentiality, creating a reliable and user-friendly tool for secure password storage.

- Tech Stack: Java
- Skills: Software Security, Data Encryption, User Authentication, Secure Storage

3. Data Analysis Project
Conducted data analysis on breast cancer datasets and diamond ring prices using Python, employing data manipulation libraries such as NumPy, Pandas, and Matplotlib. Extracted meaningful insights and visualized data trends to support data-driven decision-making.

- Tech Stack: Python, NumPy, Pandas, Matplotlib
- Skills: Data Analysis, Data Visualization, Data-Driven Insights, Python Programming

4. Project Communication Management (Group Project)
Collaborated with a team to develop a comprehensive project communication management plan, emphasizing stakeholder communication and real-time project tracking. Documented standard operating procedures (SOPs) to ensure consistency and clarity in project workflows, enhancing collaboration and communication efficiency.

- Skills: Project Management, Communication, Stakeholder Engagement, SOP Documentation

5. University Interest Registration App (Mobile App Development)
Developed a mobile application using React Native and Firebase, allowing users to register their interest in university programs. This app improved user engagement and simplified the application process with an intuitive interface and efficient form submission.

- Tech Stack: React Native, Firebase, Material Icons
- Skills: Mobile App Development, User Engagement, UX/UI Design, Form Handling

WORK EXPERIENCE

Metrology Data Private Limited, Mumbai   March 2023 - July 2024
Senior Digital Research Executive
- Utilized advanced Excel and Python to automate data analysis and report generation, provided technical support for software reconfigurations, and collaborated with stakeholders to meet reporting deadlines with accurate deliverables.

Gracenote - A Nielsen India Company, Mumbai   **December 2019 - January 2023**
Content Partnership Specialist
- Coordinated data acquisition from broadcasters and EPG providers, managed content initiatives across teams, and analyzed system workflows to identify improvements, creating clear, step-by-step SOPs to streamline processes and support scalable, efficient task completion.

The Open Library Project, Mumbai   **December 2018 - November 2019**
Community Manager
- Led client introductions to "The Open Library Project," engaged with existing clients to ensure service alignment, handled administrative tasks with precision, and managed the company's digital presence across website and social media platforms to foster community engagement.

HT Media LTD, Mumbai   **October 2015 - June 2018**
Library Assistant

- Digitized and preserved printed materials, managed a centralized server for cross-departmental access, ensured quality control of submitted digital assets, and expanded the media library by coordinating with external image agencies.

TECHNICAL SKILLS

- **Full Stack Development:** Basic understanding of front-end and back-end technologies, including HTML, CSS, JavaScript, React, Tailwind CSS, and Flowbite.
- **Version Control & GitHub:** Familiar with version control concepts and using Git for collaborative coding practices, including basic commands, branching strategies, and repository management on GitHub.
- **Software Engineering Concepts:** Understanding of fundamental software engineering principles, including the software development lifecycle, design patterns, and testing methodologies.
- **Database Management:** Basic knowledge of SQL for relational databases and familiarity with NoSQL databases like MongoDB.
- **APIs:** Basic understanding of RESTful APIs and how to consume them in applications.
- **Agile Methodologies:** Introductory knowledge of Agile practices and tools for project management.

EDUCATION & QUALIFICATIONS

University of South Wales - Master`s degree Computer Science   **Sept 2023 to Present**
(Awaiting Results)

My coursework covered Object-Oriented Programming, Data Structures and Algorithms, Data Mining, Mobile App Development, Project Management, Research Methodology, and Distributed Computing. This foundation strengthened my analytical, problem-solving, and collaborative skills, preparing me for a successful tech career.

ACHIEVEMENTS

- **International Teaching Opportunity:** Selected to travel to Vietnam in collaboration with the Welsh Government to teach mobile app development using MIT App Inventor, enhancing cross-cultural learning and sharing expertise with fellow students.
- **Vice President, Code Club (USW):** Led initiatives to teach students from various disciplines the fundamentals of coding, including HTML, CSS, and JavaScript, fostering an inclusive learning environment and promoting programming skills across diverse fields.
- **Course Representative, Master's in Computer Science:** Acted as a liaison between faculty and students, advocating for student needs and contributing to program improvements.

HOBBIES:

- Enjoys video gaming, enhancing strategic thinking and problem-solving skills.
- Passionate about cooking, reflecting adaptability and attention to detail.
- Regularly goes for long walks, supporting mental clarity and resilience.

   REFERENCES - Available on request