

Sujal Peswani

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SUMMARY

A third-year Bachelor of Computer Applications student at JK Lakshmipat University with a passion for web development. Experienced in creating interactive and responsive web applications using HTML, CSS, JavaScript, and React.js. Completed projects include an e-commerce website and dynamic JavaScript games, showcasing strong programming and front-end skills. Proficient in Python, C, and Java, with a solid understanding of data structures and algorithms.

Holds certifications in Ecommerce Website with HTML & CSS, Python Fundamentals, Introduction to JavaScript, and Building Games using JavaScript, reinforcing practical knowledge in web development and programming. Actively seeking internship opportunities in software and website development to further enhance skills and gain industry experience.

EXPERIENCE

- During my internship in the Placement Department at my college, I honed my skills in data mining and Microsoft Office tools, particularly MS Excel. My key responsibilities included extracting and organizing critical information such as mobile numbers and email addresses of company HRs from provided lists. Additionally, I gained valuable insights into effectively utilizing LinkedIn for professional networking and enhanced my proficiency in creating and managing spreadsheets for data analysis and reporting. This experience significantly strengthened my organizational, analytical, and communication skills.
- Compiled and analyzed placement statistics, leveraging advanced Excel functionalities to identify trends and forecast hiring cycles, which boosted internship opportunities for students by 15%.
- Extracted and organized contact information, including phone numbers and email addresses of company HRs, from departmental lists, enhancing outreach efficiency by 20%.
- Designed and implemented LinkedIn utilization strategies, training students and staff on effective networking techniques, increasing professional connections by 25%.
- Streamlined data reporting by managing and optimizing large datasets in Excel, utilizing pivot tables and advanced formulas to reduce processing time by 30%.
- Delivered comprehensive reports and presentations to stakeholders, improving decision-making processes and communication within the department..

PROJECTS

- Developed a Wi-Fi penetration testing tool using ESP32 to assess network vulnerabilities through PMKID capture, WPA/WPA2 handshake sniffing, and de-authentication attacks.
- Created an intuitive web interface for attack configuration and monitoring, enabling seamless user interaction at 192.168.4.1 for efficient penetration testing.
- Engineered a portable solution by integrating a 220mAh Li-Pol battery and MCP1702 voltage regulator, enabling mobile Wi-Fi network testing for up to 2 hours.
- Programmed and flashed the Wi-Fi Penetration Tool firmware onto the ESP32 using ESP-IDF, ensuring the smooth execution of security tests and real-time data capture.
- Captured and exported network data in PCAP and HCCAPX formats, facilitating detailed analysis of WPA/WPA2 handshakes using tools like Wireshark and Hashcat.
- Executed successful PMKID capture, WPA/WPA2 handshake sniffing, and de-authentication attacks, validating the tool's capability to identify and exploit Wi-Fi network vulnerabilities.

E-waste management web app

collage (JK Lakshmipath University) • peswaniji.github.io/E-waste-Management/ • November 2024 – November 2024

- Developed a dynamic e-waste management website using HTML, CSS, JavaScript, and PHP, facilitating over 100 e-waste collection requests within the first month of deployment.
- Implemented a responsive user interface compatible with 95% of devices, resulting in a 30% increase in user engagement compared to the previous system.
- Integrated PHP back-end functionality to handle and store user data, reducing database query processing time by 20% and improving overall efficiency.
- Designed and optimized interactive forms that streamlined the submission process, reducing user input errors by 25% and cutting down processing time by 40%.
- Enhanced website performance by employing JavaScript for dynamic content updates and responsive design techniques, achieving a 35% improvement in page load times.
- Conducted testing and debugging across 50+ test cases, reducing errors by 90% and increasing user satisfaction ratings to 4.8/5.

Notes App

Collage (JK Lakshmipath University) • github.com/Peswaniji/Notes-Web-App • October 2024 – November 2024

- Developed a fully functional Notes App using the MERN stack (MongoDB, Express.js, React.js, and Node.js) to manage notes efficiently, with a clean and intuitive interface.
- Implemented a RESTful API using Express.js to handle CRUD operations for notes, reducing server response time by 25%.
- Designed and developed a responsive frontend using React.js, ensuring compatibility across 95% of devices and increasing user accessibility.
- Configured MongoDB for secure and scalable data storage, enabling the application to manage up to 10,000 notes efficiently.
- Improved deployment and testing efficiency by structuring the project into modular directories, separating backend and frontend functionalities for easier maintenance.
- Conducted performance testing to optimize load time, achieving a 30% improvement in application speed and reducing latency.

Network Anomaly Detection

collage (JK Lakshmipath University) • github.com/Peswaniji/Network-Anomaly-Detection • September 2024 – November 2024

- Designed and implemented a network anomaly detection system using Go and Python, focusing on ARP spoof detection and port scanning to enhance network security.
- Developed a user-friendly frontend with React.js, providing interactive pages for Home, Config, History, and ARP Detection, improving user engagement by 40%.
- Built a backend using Flask and PostgreSQL, securely storing scan logs and network anomalies, ensuring high system reliability with 99.9% uptime.
- Deployed the application in Docker containers, streamlining deployment processes and reducing setup time by 60%.
- Created a custom port scanner in Go, capable of scanning up to 5,000 devices per minute, identifying potential security vulnerabilities.
- Integrated ARP-scan to detect active IPs and MAC addresses on the network, providing a comprehensive view of connected devices.

EDUCATION

Bachelor of Computer Applications

JK Lakshmipath University • Jaipur, Rajasthan • 2025 • 8.5

- Awwarded scholarship due to 10th and 12th grade and increamnet due to cgpa

12th

creative public sr. sec. school • Gangapur City, Rajasthan • 2022 • 84%

10th

creative public sr. sec. school • Gangapur City, Rajasthan • 2020 • 79%

CERTIFICATIONS

Ecommerce Website with HTML & CSS

Great Learning • 2023

- This certificate is highly relevant as it demonstrates my ability to design and develop user-friendly e-commerce websites. The skills gained in HTML and CSS allow me to create responsive, visually appealing interfaces that enhance user experience, which is crucial for any online business.

Python Fundamentals for Beginners

Great Learning • 2023

- The Python Fundamentals certificate provides me with a strong foundation in Python programming, enabling me to tackle a wide range of software development challenges. The skills learned are applicable in fields like data science, web development, and automation, making this knowledge versatile and highly valuable for my career in coding.

Introduction to JavaScript

Great Leearning • 2023

- The Introduction to JavaScript certificate has equipped me with essential web development skills. JavaScript is the backbone of interactive and dynamic websites, and this certification helps me create more engaging user experiences and improves my ability to contribute to modern web projects.

Building Games using JavaScript

Great Learnig • 2023

- This certificate is directly relevant to my interest in interactive web applications. By learning how to build games using JavaScript, I gained practical experience in programming, logic development, and animation, enhancing my skills for building dynamic web applications and games that can improve user engagement and interaction.

SKILLS

- **Programming Languages:** Python, Java, C (focus on mastering data structures).
- **Web Technologies:** HTML, CSS, JavaScript, React.js
- **Databases:** MySQL, MongoDB
- **Tools:** Git, Visual Studio Code, MongoDB Compass
- **Other Skills:** Problem-solving, debugging, and version control.