Shudarsan Regmi

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Education

B.Tech in Computer Science with Cyber Security - *Amrita Vishwa Vidyapeetham - Deemed University*
2023 - present
- GPA: 9.01

Experience

Open Source Contributor
Jan 2020 - present
- Pioneered contributions to 20+ open-source projects, specializing in web application development, implementing critical features and optimizations across diverse technological ecosystems
- Performed 150+ code reviews, resolved 50+ critical bugs, and implemented 30+ feature enhancements, contributing to the functionality and stability of 20+ projects.

Python Development Intern, InfoSys Springboard, Virtual Internship
Nov 2024 – Feb 2025
- Developed a fashion e-commerce platform with app design, database planning, API development, and code integration from different teams, improving operational efficiency by 90%.
- Optimized backend functionality and database management, enhancing user experience by 30% and streamlining data processing for better scalability.
- Took on Product Owner responsibilities in an Agile Scrum environment, collaborating with Scrum Masters, maintaining team communication, updating Agile artifacts, and ensuring timely deliverables, leading to a 40% improvement in team efficiency.

CTF Player - Web Security
2021 – Present
- Achieved top 20 rankings in over 25 Capture the Flag (CTF) competitions, showcasing an ability to dissect complex cybersecurity scenarios and deliver solutions under pressure while competing against hundreds of participants.
- Specialized in web security challenges by identifying and resolving 15+ vulnerabilities in competitive and professional settings, demonstrating expertise in penetration testing and security assessment

Skills

Programming Languages	**Cloud Technologies**
C, C++, Python	AWS, Azure
Frameworks and Databases	**Tools**
React, Tailwind, NodeJS, QT Desktop, MongoDB, MySQL, Firebase	Linux, Git, Vim

Projects

Class Management System (CMS)
Github
- Developed a full-stack Class Management System (CMS) with role-based access (Student, CR, Class Advisor), supporting core classroom operations like attendance, course materials, notices, OD requests, event timelines, and more.
- Technologies : React, Tailwind, MUI, Node Js, Express, MongoDB, Cloudinary (Object Storage)

Network Packet Sniffer
Github
- Engineered advanced network packet sniffer with comprehensive filtering capabilities, enabling granular traffic analysis by source IP, destination IP, protocol, and port
- Implemented sophisticated packet capture and analysis mechanisms using C and low-level socket programming techniques
- Achieved 92% performance improvement in real-time network traffic monitoring and forensic analysis

Gym Membership Management System
Github
- Engineered a Gym Membership Management System with functionalities for user registration, membership tracking, and workout scheduling with 95% better customer feedback
- Tools Used: C++, QT Framework, Sqlite3

Certifications

Red Hat RH-199 Training Course
System Administration
- Completed Red Hat RH-199 Training, mastering Linux administration, user management, networking, security, shell scripting, and system troubleshooting for efficient server maintenance.

Cisco CCNA Course
Computer Networking
- Completed Cisco CCNA Networking course on Udemy, focusing on routing, switching, and network troubleshooting