

Sadhana Shree P

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EXECUTIVE SUMMARY

Dedicated Computer Science Engineering student with dual expertise in full-stack development and web application penetration testing. Focused on creating robust, secure web solutions through continuous skill enhancement and technology exploration. Combines technical proficiency with a growth mindset to deliver innovative, efficient applications. Eager to apply my development and security knowledge to build safer digital experiences.

SKILLS

- Programming Languages: C, C++, Python.
- Web Development : HTML, CSS, JavaScript, React.js, Node.js, Express.js, Bootstrap , Andriod / Flutter.
- Databases : MySQL, MongoDB.
- Cybersecurity : Web Penetration testing, Vulnerability Assessment, OWASP top 10 Vulnerability.
- Other Tools and Tech : Github, Postman, Docker, Flutter , Burpsuite , Nmap , Metasploite, Android Studio.
- Soft Skills : Self-Motivated, attention to detail, problem-solving, leadership, adaptability, communication and teamwork.
- Areas of Interest : Full-stack Development, Web Penetration Testing.

EXPERIENCE

Web Penetration Testing – Zyphron Technologies

4 weeks

Internship 📍

Coimbatore

- Gained hands-on experience with Web penetration testing and utilized a variety of ethical hacking tools.
- Conducted vulnerability assessments on websites and created detailed reports on findings.
- Found 15+ vulnerabilities across 5 websites and Improved system security.

PROJECTS

Anesthesia Controlling and Monitoring System 📍

Tech Stack: HTML, CSS, JavaScript, Python, MongoDB, IoT Sensor Integration

- Developed a web-based application that calculates appropriate anesthesia levels based on user credentials and monitors heart rate in real time.
- The system enhances patient safety by providing accurate dosage recommendations and continuous health tracking.

DDoS Protection System for Cloud: Architecture 📍

Tech Stack: MERN Stack, Python, Machine Learning, Wireshark, MongoDB

- Designed and implemented a real-time DDoS mitigation architecture integrating ML-based packet inspection and server load monitoring.
- Developed threshold-based filtering and CAPTCHA validation to detect, classify, and block malicious traffic with adaptive security layers.

E-Commerce Website using MERN Stack 📍

Tech Stack: MongoDB, Express.js, React.js, Node.js (MERN), Bootstrap

- Built a scalable e-commerce web app with secure user authentication, product management, shopping cart, and order processing.
- Integrated JWT-based login system, dynamic product routing, and real-time cart updates for a seamless user experience.
- Delivered a mobile-responsive UI with persistent data handling via MongoDB and RESTful API endpoints.

Flutter Weather App with API

- Designed and developed a real-time weather application with a modern UI using Flutter and the OpenWeatherMap API.
- The app fetches current weather data based on user location or city input and displays dynamic weather information with clean visuals and intuitive design.

CERTIFICATIONS

EC – Council

- Ethical Hacking Essentials
- Network Defense Essentials
- SQL Injection Attacks

University Of Cambridge

- Business Communication – Lingua Skill

NPTEL

- Practical Cyber Security for Cyber Security Practitioners
- Cyber Security and Privacy

UDEMY

- Complete Ethical Hacking Masterclass
- HTML CSS JAVASCRIPT Full Stack Programming Course
- ReactJs - The Complete ReactJs Course For Beginners

EDUCATION

Sri Ramakrishna Engineering College

2022- 2027

M tech Computer Science and Engineering

Vidya Vikasini Matric Hr Sec School

2021-2022

HSC

Vidya Vikasini Matric Hr Sec School

2019-2020

SSLC

ACCOMPLISHMENTS

- Developed secure MERN stack applications and implemented real-time DDoS mitigation using ML and CAPTCHA validation.
- Successfully identified and mitigated 15+ web vulnerabilities during a cybersecurity internship, enhancing real-world application security.
- Certified in Ethical Hacking and Network Defense, with hands-on experience in secure coding and full-stack development. Built a scalable e-commerce web app with secure user authentication, product management, shopping cart, and order processing.
- Hands-on experience building secure web and mobile solutions with MERN and Flutter, with active involvement in real-time hacking events, tech expos, and vulnerability assessments.