Deepak George

deepakgeorge1020@gmail.com +91-8848852882 LinkedIn Portfolio

Education

Vellore Institute of Technology May 2025, Chennai
B.Tech in Computer Science Engineering with specialization in CPS - Current CGPA: ***8.15***

Holy Cross HSS, Cherpunkal May 2021, Kerala
PCMC - DHSE: ***97.25%*** | *Matriculation Marks:* ***99%***

Skills

Languages and Frameworks: Python, Bash, Matlab, MySql, MongoDB , HTML, CSS
Core Subjects and Tools: Cyber Physical Systems Design , Cryptography and Network Security , DBMS, Computer Networks, Arduino, Git/GitHub, Postman,Adobe XD,Figma
Others: Management, Operations and Strategy, Software Development

Experiences

Centre for Development of Advanced Computing | *Cyber Security Intern* Feb - 2025 to April - 2025, Chennai
- Developed SecureSys, a PowerShell-based interactive script to automate and enforce key Windows security policies. Simplifies system hardening for administrators by aligning with CIS Microsoft Windows 11 Enterprise Benchmark, enhancing endpoint protection and compliance with best practices.

Computer Emergency Response Team | *Digital Forensics & Security Intern* Nov - 2023 to Jan - 2024, Kerala
- Led CERT incident response, achieving a 95% success rate in identifying and mitigating cybersecurity threats, showcasing expertise in advanced security tools and methodologies.

Indian Institute of Technology, Madras | *Data Optimization Intern* Aug - 2023 to Oct - 2023, Chennai
- Optimized Water Distribution Networks by automating systems using IoT platforms (ThinkSpeak, ThingBoard) and advanced data science techniques, improving efficiency by 20%.Optimized Code in Python, Node.js, MATLAB, and web technologies, enhancing system performance by 15% and improving project delivery time.

Projects

ShadowBan – Intelligent IP Access Control to Prevent Unauthorized Website Access | *Python,mySQL*
- Ongoing: Developing ShadowBan, a Python-based IP management tool with a MySQL backend to restrict website access by region. Enables IP-based access control to prevent DDoS and malicious attacks, supporting cybersecurity and forensic use cases

WinPass Extractor – A Forensic Password Recovery Tool | *Windows API, Python, Win32Crypt*
- Developed a Windows-based password extraction tool leveraging system-level APIs and registry analysis to retrieve saved credentials securely. Implemented efficient memory forensics and decryption techniques to uncover stored passwords, aiding in security audits and forensic investigations.

Planning Mithra | *Open AI,Google API's,HTML,CSS*
- Developed an AI-powered trip advisor, Planning Mithra, with secure authentication and intelligent trip planning features. Implemented AI-driven itinerary generation, real-time food recommendations, and budget estimation using OpenAI and Gemini API. Integrated Google Maps and Places API to fetch live destination data and enhance location-based travel suggestions.

Achievements

Patent - Non-Invasive Glucose Monitoring | *Inventor* | Patent No : 202541011516
- Filed a patent for a needle-free, non-invasive glucose monitoring system embedded in smart footwear, utilizing multi-sensor fusion, bioelectrical impedance analysis, and adaptive signal processing for real-time health monitoring. Demonstrates expertise in biomedical instrumentation and AI-driven health analytics.

Patent - Medical Socks for Somnambulism Detection | *Inventor* | Patent No : 202541055921
- Filed a patent for smart socks designed for real-time sleepwalking detection, incorporating motion sensors and biometric monitoring to identify abnormal sleep behavior. Demonstrates innovation in wearable health tech and embedded system design for behavioral safety.

Positions of Responsibility

Robotics Club, VIT Chennai | *Team Head* Aug - 2023 to Dec - 2023
- Led the design and prototyping of a smart hydroponics system tailored for urban farming, integrating IoT and automation to optimize plant growth and resource efficiency. Managed full-cycle development and technical execution to advance sustainable, tech-driven agriculture.