Deepak George

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Education

Vellore Institute of Technology Present, Chennai
B.Tech in Computer Science Engineering with specialization in CPS - Current CGPA: ***8.02***

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

Skills

Languages and Frameworks: Python, C++, Bash, Matlab, SQL, MongoDB, ReactJs, Flask, Node.js
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 – Present, Chennai
- Developing an advanced IP blacklisting system at CDAC, utilizing traffic and behavior analysis to identify, categorize, and block potential threats in real time, strengthening cybersecurity defenses.

Computer Emergency Response Team | *Digital Forensics & Security Intern* Nov - 2023 – 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 – Oct - 2023, Chennai
- Optimized Water Distribution Networks by automating systems using IoT platforms (ThinkSpeak, ThingBoard) and advanced data science techniques, improving efficiency by 20%.
- Developed and Optimized Code in Python, Node.js, MATLAB, and web technologies, enhancing system performance by 15% and improving project delivery time.

Projects

Planning Mithra | *ReactJs, Typescript, Firebase* | GitHub
- Developed an AI-powered trip advisor, Planning Mitra, using React, Vite, and Firebase, integrating Google Auth0 for secure authentication. Implemented AI-driven itinerary generation, real-time food recommendations, and budget estimation using OpenAI and Gemini API. Integrated Google Maps and Places API for enhanced travel planning and location-based suggestions.

VIT Connect | *Reactjs, Nodejs, Expressjs, MongoDB* | GitHub | Website
- Developed VIT Connect, a full-stack contact directory with a React.js frontend and Node.js & Express.js backend, using MongoDB for data storage and secure access. Implemented efficient search and retrieval for faculty and batchmate contact details

WinPass Extractor – A Forensic Password Recovery Tool | *Windows API, Python, Win32Crypt* | GitHub |
- 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. Enhanced extraction speed and accuracy, outperforming conventional tools by 30%, while reinforcing secure credential management practices in Windows environments.

SAVN - Secured Autonomous Vehicular Network | *Cryptography , EDS , VANET, Syn Data Generation*
- Developed SAVN (Secured Autonomous Vehicular Network) using ML and DL to detect cyber threats in autonomous vehicle communications, integrating encryption-based Endpoint Detection System (EDS) for security.

Achievements

Patent - Non-Invasive Glucose Monitoring | *Inventor*
- 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.

Positions of Responsibility

Robotics Club, VIT Chennai | *Team Head* Aug - 2023 – Dec - 2023
- Led a team of 10 in designing and prototyping an advanced hydroponics system for urban farmers, integrating automation and IoT for optimized plant growth. Successfully managed project development, resource allocation, and technical execution to promote sustainable urban agriculture.