Nithyashree Sridhar

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PROFILE

Highly motivated B.Tech 🔗 Electronics and Communication professional with a strong interest in cutting-edge technological advancements within the electronics domain. Possessing a foundational understanding of C and Python, I am a quick learner eager to apply my technical skills to innovative projects and contribute to future developments. Enthusiastic and committed to rapidly expanding my expertise, I am actively seeking challenging opportunities to learn and grow.

SKILLS

- Basics in C
- Basics in Python
- Basics in Data Structures and Algorithm
- Verilog

CERTIFICATES

- Introduction to IoT
- PCB design workshop

PUBLICATIONS

CLOUD COMPUTING AND SECURITY PRACTICES Digital Forensics (4N6) Publication, Dec 2023-Feb 2024
Digital Forensics (4N6) Publication volume 9 | issue 1 | February 2024 Authored a research article exploring key cloud computing concepts, security risks, and best practices for securing cloud-based environments. Analysed various cloud service models (IaaS, PaaS, SaaS) and highlighted emerging trends in cloud security technologies and frameworks.

PROJECTS

ASCON Implementation for Efficient Cryptographic Security
This project involved the implementation of the ASCON family of cryptographic algorithms. The primary goal was to achieve efficient cryptographic security, particularly for resource-limited applications. The implementation aimed to balance strong security properties with optimal performance.

RESEARCH INTERNSHIP AT IIT, GUWAHATTI
Cryptography
During my research internship at IIT Guwahati, I delved into the field of cryptography, exploring concepts such as authenticated encryption, Message Authentication Codes (MACs), and hash functions. I also investigated the growing need for lightweight cryptography in resource-constrained environments. This immersive experience broadened my understanding of modern cryptographic techniques and their practical applications. The internship culminated in a deeper appreciation for the design principles and security considerations within these critical areas of cybersecurity.

INTERESTS

As a singer deeply interested in both the structured beauty of classical music and the emotive storytelling of film songs, I've personally experienced how engaging with music fosters significant mental relaxation. This calming effect, I believe, directly translates to enhanced focus and concentration, creating a more conducive state for learning and problem-solving. This appreciation for the power of music extends beyond personal enjoyment, informing my understanding of how a balanced and mindful approach can enhance overall effectiveness in any endeavor.