SUBHASHINI KUJULWA MURALIDHARAN

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ABOUT ME

An undergraduate student with a strong passion for cybersecurity and software development, eager to gain practical experience and explore the field further. I have successfully completed JLPT N5 and am presently pursuing JLPT N4 to deepen my language skills and improve cross-cultural communication.

EDUCATION

Bachelor of Information Technology (2022–2026) CGPA: 8.58*/10
Sastra Deemed University, Thanjavur
Minor: Innovation & Entrepreneurship
Relevant Subjects: Data Structures, Database Management Systems, Operating Systems, Computer Architecture, MERN Stack, Machine Learning, Domain-Centric Security, Artificial Intelligence and Software Engineering Practices

Higher Secondary (Class XII) (2020–2022) 92%
DAV Girls Sr. Secondary School, Chennai

Secondary (Class X) (2010–2020) 98%
DAV Girls Sr. Secondary School, Chennai

SKILLS

LANGUAGES: C++, JAVA, SQL, HTML, CSS, Javascript and Python.
SOFT SKILLS: Collaboration, Flexibility, Effective Communication, and Critical Thinking.

PROJECTS

Generation of random sequences using DNA cryptography for OTP encryption

- Executed a collaborative project to generate random non reusable OTP key sequences from a public database to produce for authentication systems enhancing security against brute force attack.
- **Key generation:** Extraction of random strands of DNA and processing the obtained sequence.
- **Secure Key Transmission:** Utilized an asymmetric algorithm for transmission of key using public channel.
- **Key Reconstruction:** Reconstructed the key using the reverse process for secure decryption.

Secure File Vault – Secure File Storage System with AES

- Developed a Python-based GUI application for secure encryption and decryption of files and folders using AES-based cryptography, with emphasis on local data privacy, access control, and file integrity.
- **File Encryption:** Delivered robust encryption for diverse file types with optional secure shredding, enhancing local data confidentiality.
- **Data Integrity:** Ensured precise decryption and hash-based tamper detection to preserve original file quality and authenticity.

Food Recommendation Software

- Collaborative project as part of “innovation and entrepreneurship” course using human-centric design principles and machine learning techniques. Developed a user-centric food recommendation platform using MIT App Inventor aimed at improving user experience.
- **Platform Integration:** Facilitated seamless payment and ordering processes.
- **Personalization:** Utilized machine learning algorithms to analyze user preferences and provide suggestions.
- **Efficiency:** Reduced average order processing time with integrated payment solutions.

CERTIFICATIONS

- **Japanese Language Proficiency Test (JLPT):** N5 certification (2025)
- **AWS Foundation of Prompt Engineering** (2025)
- **Introduction to Cyber Security**: Simplilearn (2025)