

TREESA MARIA CINIL

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DESCRIPTION

Enthusiastic and detail-oriented Computer Science and Engineering student with strong skills in programming, network simulation, and cybersecurity. Proficient in C, Python, and tools like NS-3 for developing and analyzing network systems. Quick learner with excellent problem-solving abilities and a passion for building efficient, real-world solutions.

EDUCATION

Rajagiri School of Engineering and Technology, Kerala, India Bachelor of Technology in Computer Science and Engineering 7.96 CGPA	2022-Present
St.George Higher Secondary School, Kerala, India Higher Secondary Education (XII-State Board) 98.25%	2021-2022
De Paul Public School, Kerala ,India High School (X-CBSE) 89%	2019-2020

WORK EXPERIENCE

Research intern Indian Institute of Technology ,Guwahati	May 2025- June 2025
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- Contributed to the research project "Lightweight Security for IoT Systems", focusing on secure communication protocols for resource-constrained IoT devices.
- Implemented and evaluated lightweight cryptographic algorithms (e.g., TEA, PRESENT, ASCON) using the NS-3 network simulator to study their impact on performance metrics such as end-to-end delay, throughput, and packet delivery ratio.
- Simulated various wireless network topologies and conducted comparative analysis between encrypted and unencrypted scenarios to assess feasibility and efficiency.
- Gained hands-on experience in NS-3 simulation, C++ programming, and performance evaluation of security protocols in wireless sensor networks.

PROJECTS

Plan & Prep – study website	Jan 2025- Apr2025
<ul style="list-style-type: none">Developed a question–answer generator from PDF study material using Natural Language Processing (NLP) with the T5 model.Implemented a personalized to-do list with user authentication and integrated a calendar feature to organize study schedules and track tasks.Focused on enhancing study efficiency through intelligent automation and task management. <p>Technologies Used: Python, Firebase, Machine Learning (T5 Model)</p>	

ACHIEVEMENTS

Secured 2nd position in – General Track, HACKS'US Edition III (24-hour Inter-College Hackathon)
Organized by RSET Innovation and Entrepreneurship Development Cell, Dec 2023

SKILLS

Languages: C| Python | Java| HTML

Databases: MySQL

Tools: Visual Studio Code

CERTIFICATIONS

Cyber Security and Blockchain Technology
IBM SkillsBuild From Learner to Builder: Become an AI Agent Architect
Artificial Intelligence using python