

TREESA MARIA CINIL

trezacinil@gmail.com | +91 7902759636 | [LinkedIn](#) | [Github](#)

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

2022-Present

Bachelor of Technology in Computer Science and Engineering | 7.96 CGPA

St.George Higher Secondary School, Kerala, India

2021-2022

Higher Secondary Education (XII-State Board) | 98.25%

De Paul Public School, Kerala ,India

2019-2020

High School (X-CBSE) | 89%

WORK EXPERIENCE

Research intern

May 2025-

Indian Institute of Technology ,Guwahati

June 2025

- 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-
Apr 2025

- 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.
Technologies Used: Python, Firebase, Machine Learning (T5 Model)

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