

Narikodan Hridul

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PROFILE

Skilled in collaborating with individuals from diverse backgrounds and possesses an adaptable mindset and a broad perspective, allowing for seamless transitions and success in any environment. Proficient in hardware security and app development with a passion for solving real-world problems.

EDUCATION

BTech <i>Electronics and Communication Engineering, Amrita School of Engineering</i> 8.74 CGPA	2020 Oct – present Kollam, India
Higher Secondary(CBSE) <i>Indira Gandhi Public School</i> 93.2 %	2020 Mar Mambaram, India
High School(CBSE) <i>Indira Gandhi Public School</i> 92.8 %	2018 Mar Mambaram, India

POSITION OF RESPONSIBILITY

Member / Student lead ✉ <i>Team bi0s</i> <ul style="list-style-type: none">Currently serving as a Student Lead in bi0s Hardware, where I actively contribute to the team's initiatives and collaborate extensively to drive successCTF player and research focused on wireless communication and embedded systems securityMentored and conducted many sessions for juniors in the club on Embedded and IoT security and development	2020 Nov Kollam, India
Research Intern <i>Traboda Cyber Labs</i> <ul style="list-style-type: none">Organised hardware badges and created challenges for hardware CTF in IC3 conferencePerformed security testing and provided cyber security solutions across product development life cycles.	Kollam, India

PROJECTS

Annual IC3 Conference ✉ <i>Traboda</i> <ul style="list-style-type: none">Developed a custom hardware badge for the conferenceCreated probing and PCB reversing challengesDeveloped a terminal UI in putty for the navigation of challenges	2023 Apr – 2023 Jul
USB Samurai <i>Team bi0s</i> <ul style="list-style-type: none">Deployed covert channel connection over RF with an air gap systemConducted hardware testing and rewrote firmware of USB donglesDeveloped a Python script to automate connection requests, file encoding, transmission, and decoding for original files	2022 Jun – 2023 Apr
CompatrioT, A Hardware Security Training Board ✉ <i>Traboda</i> <ul style="list-style-type: none">Developed a custom development board with challenges for beginners in hardware securityDeveloped a puTTY terminal UI for challenge navigation and contributed to challenge creationWrote the firmware for integrating terminal UI and challenges	2022 Jan – present
Attendance management System <i>Team bi0s</i> <ul style="list-style-type: none">Developed Attendance Management System for Team bi0s clubUtilized internet packets received by the modem to mark attendance in the databaseImplemented a Discord bot to fetch data from the API and process itFormatted attendance data to generate lists of absentees, currently present members, and present members for the day	2023 Jan – 2023 Apr

Expression Based Calculator App [↗](#)

2023 Mar – 2023 Jul

A flutter android app

- Released on the Play Store on July 16, 2023
- Created an expression-based standard calculator with arithmetic operations, factorial, e, logarithm functions (ln, log10, log2), along with history feature.
- Added a base converter for numeric conversions

Chess Timer [↗](#)

2021 Dec – 2022 Mar

A flutter android app

- Released on the Play Store on March 23, 2022
- A chess timer Android app with all basic features like setting timer, pause, reset, changing orientations etc.

School Administration System [↗](#)

2019 Nov – 2019 Dec

A c++ project

- Developed a school administration system to manage student information efficiently
- Implemented functionality to add, modify, and remove student details with ease

AWARDS AND ACHIEVEMENTS

First runner up - Hardware CTF [↗](#)

2022 Sep 10

Nullcon Goa

Secured first runner-up in Hardware CTF organized by Quarkslab at Nullcon Goa 2022.

DSCI Embedded Security CTF [↗](#)

2022 Oct

Data Security Council of India

Qualified for the preliminary round and was the 1st runner up of the qualifier round.

Javelin

- Participated in National CBSE Athletic meet, 2019, Allons Public School, Chhattisgarh
- Winner of CBSE state Athletic meet, 2019
- First runner-up in District level Athletic meet 2018

COURSES AND CERTIFICATIONS

Introduction to Flutter [↗](#)

2022 Oct

SkillUp

C programming - Master the C Language [↗](#)

2022 Sep

Udemy

Problem solving - HackerRank Test [↗](#)

2022 Sep

HackerRank

Python - HackerRank Test [↗](#)

2022 Sep

HackerRank

ORGANIZATIONAL EXPERIENCE

Game On

2022 Oct

- Led a team of 5 members to successfully initiate and organize "GAME ON," a sports event for 1st year students, with an emphasis on the students' mental and physical wellness.
- More than 120 students participated in the event, demonstrating the event's popularity and success in engaging the student community.
- The sporting events included Badminton, Table Tennis, and Chess.

SKILLS

Programming

Python, Dart (Flutter), C ++, C programming

Technical

Ansys, TinkerCad, Linux, Matlab, Cadence, QuestaSim

Soft skill

Leadership, Adaptivity, Team work

LANGUAGES

- English
- Hindi

- Malayalam