

Narikodan Hridul

✉ narikodanhridul@gmail.com

in narikodanhridul

📞 +919400918650

⌚ narikodanhridul



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>	2020 Nov Kollam, India
• Currently serving as a Student Lead in bi0s Hardware, where I actively contribute to the team's initiatives and collaborate extensively to drive success	
• CTF player and research focused on wireless communication and embedded systems security	
• Mentored and conducted many sessions for juniors in the club on Embedded and IoT security and development	
Research Intern <i>Traboda Cyber Labs</i>	Kollam, India
• Organised hardware badges and created challenges for hardware CTF in IC3 conference	
• Performed security testing and provided cyber security solutions across product development life cycles.	

PROJECTS

Annual IC3 Conference ☐ <i>Traboda</i>	2023 Apr – 2023 Jul
• Developed a custom hardware badge for the conference	
• Created probing and PCB reversing challenges	
• Developed a terminal UI in putty for the navigation of challenges	
USB Samurai <i>Team bi0s</i>	2022 Jun – 2023 Apr
• Deployed covert channel connection over RF with an air gap system	
• Conducted hardware testing and rewrote firmware of USB dongles	
• Developed a Python script to automate connection requests, file encoding, transmission, and decoding for original files	
CompatrioT, A Hardware Security Training Board ☐ <i>Traboda</i>	2022 Jan – present
• Developed a custom development board with challenges for beginners in hardware security	
• Developed a puTTY terminal UI for challenge navigation and contributed to challenge creation	
• Wrote the firmware for integrating terminal UI and challenges	
Attendance management System <i>Team bi0s</i>	2023 Jan – 2023 Apr
• Developed Attendance Management System for Team bi0s club	
• Utilized internet packets received by the modem to mark attendance in the database	
• Implemented a Discord bot to fetch data from the API and process it	
• Formatted attendance data to generate lists of absentees, currently present members, and present members for the day	

Expression Based Calculator App 	2023 Mar – 2023 Jul
<i>A flutter android app</i>	
<ul style="list-style-type: none"> 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
<i>A flutter android app</i>	
<ul style="list-style-type: none"> 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
<i>A c++ project</i>	
<ul style="list-style-type: none"> 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
<i>Nullcon Goa</i>	
Secured first runner-up in Hardware CTF organized by QuarksLab at Nullcon Goa 2022.	

DSCI Embedded Security CTF 	2022 Oct
<i>Data Security Council of India</i>	
Qualified for the preliminary round and was the 1st runner up of the qualifier round.	

Javelin	
<ul style="list-style-type: none"> 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
<i>SkillUp</i>	
C programming - Master the C Language 	2022 Sep
<i>Udemy</i>	
Problem solving - HackerRank Test 	2022 Sep
<i>HackerRank</i>	
Python - HackerRank Test 	2022 Sep
<i>HackerRank</i>	

ORGANIZATIONAL EXPERIENCE

Game On	2022 Oct
<ul style="list-style-type: none"> 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	Technical
Python, Dart (Flutter), C++, C programming	Ansys, TinkerCad, Linux, Matlab, Cadence, QuestaSim
Soft skill	
Leadership, Adaptivity, Team work	

LANGUAGES

• English	• Malayalam
• Hindi	