

Keerthi Prabu P

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Profile

Focused on penetration testing, software testing, and hardware security. Hands-on experience in cybersecurity, embedded systems, and power systems. Skilled in identifying security vulnerabilities and optimizing system performance. Active member of Team bi0s, contributing to security research and assessments.

Education

BTech Electrical and Computer Engineering <i>Amrita School of Engineering</i> Current GPA: 8.5	2022 – 2026 Kollam
Higher Secondary <i>Arogyamatha HSS</i> GPA: 9.3	2020 – 2022 Palakkad
Senior Secondary <i>St.Gregorious English Medium School</i> GPA: 8.8	2008 – 2020 Palakkad

Club Activities

Adversary Village <i>Staff</i> Played a key role in organizing BSides Kochi 2025 security conference and actively organized weekly hacker meetups on Discord for team enrichment as part of DEFCON Trivandrum chapter.	2024 – present
Team bi0s <i>Security analyst</i> Working on network penetration testing , focusing on wireless attacks, Man-in-the-Middle (MITM) attacks, and Active Directory exploitation gaining hands-on experience via Hackthebox environment.	2023 – present
Robotics Club <i>Robot control developer</i> Worked as a developer on PID applied robotics for precise motion and stability, focusing on line-following and maze-solving applications.	2022 – 2023

Projects

Decentralized Smart Metering System Contributed to creating a simulated environment in MATLAB Simulink for generating sample energy consumption data. Developed a backend API to process this data, which was then integrated into a blockchain-powered application created by teammates for secure and tamper-proof energy monitoring.	01/2025
Nova Robot Worked on chatbot interface for the navigation robot Nova. Chatbot is based on speech-to-text and text-to-speech functionalities and process it via LLM api, enabling the robot to process voice commands and interact with users effectively.	12/2024
Embedded Drowsiness Detection System Conducted performance analysis on Raspberry Pi 3 and 4 to evaluate real-time processing capabilities. By utilizing facial landmark detection and eye aspect ratio (EAR) analysis with OpenCV and Dlib enhanced the detection accuracy and system efficiency.	11/2024

Saheli - RAG implemented Healthcare Chatbot Implemented backend API and frontend UI for Saheli, a mental health chatbot. Additionally, worked on understanding Retrieval-Augmented Generation (RAG) models , fine-tuning them to improve response accuracy and enhance user interactions.	04/2024
Diary app Open-source diary application for PC, using Java Swing . Integrated with MySQL database for secure entry storage. The app allows users to write and save daily notes, providing a simple and efficient digital diary experience.	09/2023

Achievements

RVCE x IITB CTF 2024 Finalist Qualified for the finals in the RVCE x IITB CTF 2024 after successfully clearing the preliminary rounds	09/2024
Platinum Badge <i>Hackthebox</i> Listed on top 40 hackers list in India during HTB season IV and awarded platinum badge.	01/2024
EyesopenCTF Finalist <i>EOCON</i> Ranked 7th in EyesOpenCTF, showcasing strong problemsolving skills.	10/2023
First in Robotic Design and Programming <i>First Lego League</i> Contributed in programming at FLL regionals (South India) event	02/2019

Community Outreach

Live in labs Participated in the Live-in-Labs program, where I learned and applied Participatory Rural Appraisal (PRA) tools, Social Development Analysis (SDA) , and other research methodologies. Conducted a small-scale implementation on campus to analyze environment. The project is still active as we plan to scale it to a village for identifying and addressing real-world challenges.	2025 – present
Cyber Hero - Cyber awareness camp Student Social Responsibility programme on security awareness by conducting live hacking demos, quizzes and secure use of cyber space.	10/2024

Certificates

Introduction to Azure Pentesting Offline hands-on training and certification course by Altered Security	Purple Teaming Fundamentals Training Certification by Cyberwarfare Labs
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Skills

Python (Modules like Requests, Selenium, Flask, etc) Autocad C++ Docker Java Active Directory Enumeration Sliver (c2 framework)
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Languages

- **English, Malayalam, Tamil** to Read, write, Speak and Understand.
- **Hindi** to Read, write, and Understand.