

MANASA MANOJ

Cannanore, Kerala | [Portfolio](#)

☎ +91 82899 39448

✉ manasamanojnbr1145@gmail.com

in [LinkedIn](#)

🐙 [Github](#)

Profile Summary

- Full-stack developer proficient in **MERN** stack, **RESTful** APIs, and dynamic UI/UX design, building **scalable** and **secure** web applications.
- Experienced in **web architecture**, **real-time** systems, and **backend** optimization.
- Passionate about leveraging **AI**, **automation**, and emerging technologies to deliver high-performance, innovative digital products.

Education

Indian Institute of Information Technology, Kottayam

Aug 2023 - Present

B.Tech in Computer Science And Engineering With Specialisation in Cyber Security

SGPA: 9.08

Experience

Kerala Police Cyberdome – Grapnel Team -Front-End Developer

Oct 2025 - Present

- Developed a **responsive** front-end for the CSAM Takedown and Trace Dashboard, enabling victims to report content and analysts to monitor cases efficiently.
- Built “Trace an Object” features and Takedown workflows using **public crowdsourcing platforms**, enabling analysts to gather leads for ongoing cases and victims to **report CSAM** for rapid content removal.

Aug 2025 - Present

Sarvam AI – Student Researcher

- Working on creating a **1000-hour synthetic** audio **dataset** for **Malayalam**, contributing to AI research and model development. Responsible for ensuring high-quality, annotated data.

EdQueries - AI Agent Developer

May 2025 - Present

- Developed and integrated an **AI chatbot** for EdQueries LMS using React, n8n, GPT-4, and Upstash Redis, achieving a **98% success** rate over **1,000+ queries** and optimizing workflows to **reduce** response time by **65%**.
- Implemented **marketing automation** pipelines with Brevo and AiSensy, enhancing communication, user engagement, and campaign efficiency.

National Institute of Technology (NIT), Calicut - Research Intern

May 2025 - June 2025

- Researched and prototyped a **GenAI-based personalized learning** platform on Moodle, implementing SCORM standards, competency frameworks, and adaptive educational delivery, and deployed **RAG-based contextual search** to **improve** answer accuracy by **40%**.
- Evaluated Moodle API integrations and GenAI prompts, identifying optimizations that **reduced** response latency by **50%**.

Skills and Competencies

Languages: JavaScript, Python, C++, Java

WebDev: React.js, Node.js, Express.js, EJS, Tailwind CSS, MongoDB, REST APIs, Upstash Redis, Tanstack Forms/Query, shadcn/ui, CosmicJS

Security/Quantum: Qiskit, Quantum Algorithms, Wireshark, Bettercap

Tools: n8n, GitHub, Figma, Canva

Acheivements

Most Collaborative Person – Hac’KP 2025

Awarded for exceptional teamwork and contributions in developing solutions to combat Child Sexual Abuse Material (CSAM) during the hackathon organized by Kerala Police Cyberdome.

Research Paper, Empower 2025, IIT Delhi

"GenAI-based Personalized Adaptive Learning Platform", Research on integrating Generative AI into adaptive learning systems. Presented at the 8th Annual Assistive Technology Conference, contributing to discussions on inclusive technology solutions for individuals with disabilities.

Relevant Coursework

- Quantum Computing & Security
- OS
- Computer Networks
- Risk Management
- Secure Software Engineering
- DSA
- DBMS
- Design and Analysis of Algorithms

Projects

Blip Journal : Blog Platform Node.js, Express.js, MongoDB, EJS, Tailwind CSS	Code
<ul style="list-style-type: none">• Developed a fully server-side rendered blogging platform using EJS, Express.js, and MongoDB, following the MVC pattern.• Implemented user authentication, post/comment creation, and role-based access (only authors can edit/delete)	
Eclipse – Modern Fashion eCommerce Platform React.js, Tailwind CSS, TypeScript, Context API	Code Live
<ul style="list-style-type: none">• Developed a responsive fashion storefront using React, Tailwind CSS, and Context API for cart and theme management.• Implemented dynamic product galleries, testimonials, and hover-based transitions with reusable components.	

Additional Information

- **Languages:** English (Fluent), Hindi (Basic), Malayalam (Native)
- **Interests:** Web Development, Quantum Computing, Cryptography