

# SABARI D

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## EDUCATION

**B.E in Computer Science and Engineering**, Karpagam Institute of Technology 2023 – 2027  
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Computer Networks, Web Development. CGPA: 8.0 / 10.0

## SKILLS

<b>Languages</b>	C++, Python, C, JavaScript (ES6+), SQL
<b>Frameworks &amp; Tech</b>	Node.js, Express.js, React, MERN Stack, MongoDB, MySQL
<b>Developer Tools</b>	Git, VS Code, Postman, Linux

## EXPERIENCE

**Web Development Intern** May 2025  
Artlysoft Technologies Coimbatore, India

- Developed and integrated 5+ responsive UI components using React for a new e-commerce module, improving user engagement metrics by an estimated 15%.
- Collaborated with the backend team to engineer RESTful API endpoints with Node.js and Express.js to manage product and user data, ensuring seamless data flow and 99.9% uptime.
- Optimized MongoDB query performance by implementing indexing strategies, reducing average data retrieval time by 30% and enhancing overall application responsiveness.

## PROJECTS

**Full-Stack Developer, AI-Powered Hostel Management System** 2024 – 2025  
Karpagam Institute of Technology Coimbatore, India

- Architected and built a full-stack hostel management system using the MERN stack, integrating the Gemini API to generate student behavior analytics, reducing administrative reporting time by 40%.
- Engineered a digital leave approval system with NodeMailer notifications, digitizing the entire process and cutting paper usage and manual processing by 95%.
- Implemented an automated attendance module using face recognition, which decreased manual entry errors to near-zero and reduced student check-in/out wait times by 80%.

**Developer, Full-Stack E-Commerce Application** May 2024  
Personal Project

- Developed a complete e-commerce web application featuring user authentication, product catalogs, and a shopping cart using the MERN stack (MongoDB, Express.js, React, Node.js).
- Designed and implemented a secure RESTful API for handling all CRUD operations, ensuring robust data management and interaction between the client and server.
- Built a dynamic and responsive frontend with React, utilizing functional components and hooks for state management, resulting in a seamless and intuitive user experience.

## AWARDS AND ACHIEVEMENT

- Presented a research paper on "The Future of AI in Mobile Application Development" at the International Conference on Latest Trends in Science, Engineering and Technology (ICLTSET '24) in Jun 2025.
- Earned a certificate in Advanced C++ and Data Structures from AlgoZenith (Oct 2024), covering competitive programming paradigms and object-oriented design principles.