

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

Languages	C++, Python, C, JavaScript (ES6+), SQL
Frameworks & Technologies	Node.js, Express.js, React, MERN Stack, MongoDB, MySQL
Developer Tools	Git, VS Code, Postman, Linux

EXPERIENCE

Web Development Intern May 2025 – Aug 2025
Artlysoft Technologies Coimbatore, India

- Developed and delivered 5+ responsive UI components using **React** for a high-traffic e-commerce module, directly contributing to a **15% increase** in user engagement metrics.
- Architected and implemented scalable **RESTful APIs** using **Node.js** and **Express.js**, maintaining **99.9% uptime** and ensuring seamless data flow between front-end and back-end services.
- Optimized **MongoDB** query performance by implementing strategic indexing and data aggregation pipelines, successfully reducing average data retrieval latency by **30%**.

PROJECTS

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

- Engineered a full-stack hostel management system using the **MERN stack** and integrated the **Gemini API** for student behavior analytics, reducing administrative reporting time by **40%**.
- Implemented a fully digital leave approval workflow using **NodeMailer**, which eliminated manual paperwork and decreased approval times, achieving a **95% reduction** in paper usage.
- Deployed a real-time attendance system using a **Python-based face recognition** model, which decreased manual entry errors and student check-in wait times by over **80%**.

Full-Stack E-Commerce Application May 2024 – Aug 2024
Personal Project Coimbatore, India

- Built a complete **MERN stack** e-commerce platform featuring a secure **REST API** backend and a dynamic, responsive **React** frontend for a seamless user shopping experience.
- Implemented **JWT-based authentication** and authorization to secure user data and establish role-based access controls for customers and administrators.
- Integrated a third-party payment gateway (**Stripe API**) to handle secure transactions, successfully processing over 100+ simulated orders in a production-like test environment.

AWARDS AND ACHIEVEMENT

- Presented research paper titled “The Future of AI in Mobile Application Development” at the International Conference on Learning, Teaching, and Smart Education (ICLTSET '24).

- Solved **300+ problems** on LeetCode, demonstrating proficiency in advanced data structures and algorithms, including dynamic programming, graphs, and advanced trees.
- Achieved and maintained a competitive rating on Codeforces by consistently ranking in the top percentiles in multiple contests.
- Awarded a certificate of completion for the **Advanced C++ & Data Structures** course from AlgoZenith (Oct 2024).