Abhirami Aji

Systems Engineer

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SUMMARY

I would like to work with your organization where I can utilize my skills for the growth of the company and enhance my professional & personal qualities.

EDUCATION

B.TECH in Computer science and Engineering | College of Engineering Poonjar,Kottayam
6.63 · Nov 2022 – Jul 2026 · Kottayam, India

High secondary Education (Plus Two) in Physics,Chemistry, Maths,English, Computer Science | Muslim Girls Higher Secondary School, Erattupetta
92% · Jul 2022 · Erattupetta, India

Secondary School Education (10th) in Physics,Chemistry, Maths & General subjects. | Carmel Rani Public School, Variyanikad
77% · Jul 2020 · Variyanikad, India

SKILLS

- **PROGRAMMING LANGUAGES:** Python(Basic), Javescript

- **WEB DEVELOPMENT:** React.js, Node.js, Express.js, REST API Development

- **DATABASE MANAGEMENT:** MongoDB, MySQL

- **DevOps & Tools:** Docker, Git & GitHub

PROJECTS

CANTEEN AUTOMATION SYSTEM | Frontend design

- Developed a Canteen Automation System using MERN stack to streamline food ordering and seat management with QR-based authentication, real-time order tracking, digital receipts, and detailed sales reporting, ensuring transparency and multi-device accessibility.

Description / Practical Application A MERN-based web application that automates canteen food ordering, seat booking, and payment workflows with QR-based authentication, real-time order tracking, and digital receipts, reducing wait times, eliminating manual processes, and ensuring transparency and efficiency in campus canteens.

Tools / Techniques Used MERN Stack (MongoDB, Express.js, React, Node.js), QR Code Generation & Scanning, Real-time Notifications, RESTful APIs, Responsive Web Design, Authentication & Authorization.

Team Size & Role Team Size: 4 members My Role: Frontend design.

Future / Further Advancement

- Integration with biometric/ID card scanners for secure food collection and seat validation.
- AI-based analytics to track sales, food demand, and customer preferences.
- Mobile app version with offline ordering and notification support.
- Enhanced admin dashboard with advanced reporting, inventory management.

VOLUNTEERING

IEEE ComSoc Secretary | SB CE Poonjar
Engaged in professional and technical society activities.

CERTIFICATIONS

Crash Course on Python | Brilliant computer education centre

Gained hands-on skills in Python programming including data types, loops, functions, and error handling.

AI for Students: Build Your Own Generative AI Model | NxtWave | Dec 2024

Certificate of participation in workshop.

Introduction to cloud computing | IEEE | Aug 2025

Certificate of participation in workshop.

Docker Certification | Udemy

Gained hands-on skills in containerization, including creating and running containers, working with Docker Hub images, and writing simple Dockerfiles.

INTERNSHIPS / WORKSHOPS

I-Net infotech, North Cochin-18

Jun 2025 – Jul 2025, Python Department

- Provides a healthcare management solution with doctor, patient, and pharmacist modules, enabling appointment booking, prescription management, medicine availability tracking, and digital receipts with secure data handling.
- Technologies and Projects: Python, Django
- Gained hands-on experience in database management (SQL), API development, and responsive web design
- Improved knowledge of notification systems (reminders/WhatsApp integration) and healthcare workflow automation

SEMINAR

Design of an Improved Method for Visual Rendering in the Metaverse Using CIEM and MSRANet

B.Tech – Final Year (Undergraduate Level)

A study on enhancing visual rendering in the metaverse through the Cooperative Insect Eye Model (CIEM) and MSRANet-based architecture. The proposed method achieves wide-angle, high-resolution views with improved efficiency, personalization, and reduced computational cost, enabling immersive and energy-efficient metaverse experiences.

EXTRA CURRICULAR ACTIVITIES

IEEE ComSoc Secretary, SB CE Poonjar — Engaged in professional and technical society activities.