

Migal G Arunadann

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EXECUTIVE SUMMARY

I am an ambitious individual with strong problem-solving skills, eager to apply my knowledge to real-world IT projects. I am a quick learner, adaptable and focused on growing while contributing value to the organization.

EXPERIENCE

Connect InfoSystem | INTERN

June 2024 - July 2024 | Chennai, Tamil Nadu

Web Development and Testing

- Created a comprehensive e-commerce platform tailored for computer accessory sales.
- Implemented user-friendly and responsive UI/UX for seamless user interaction.
- Conducted thorough testing and troubleshooting to ensure compatibility across multiple browsers.

PROJECTS

Needil-Patient Management System (Mobile Application)

| LEAD

Feb 2026 | Dart, PocketBase, Android Development, CI/CD

- Led Full-Stack Development: Single-handedly architected and deployed a comprehensive clinic management application from ground zero, optimizing daily operational workflows for medical staff.
- Developed a dynamic session-generation algorithm that automatically maps out complex, multi-week treatment plans based on doctor schedules and treatment duration intervals.
- Implemented Role-Based Access Control (RBAC): Engineered secure authentication and tailored UI experiences for different staff roles, backed by PocketBase RLS (Row-Level Security) to guarantee patient data privacy.
- Designed a State-Driven Data Pipeline: Implemented a strict sequential appointment workflow (Arrival → Triage → Consultation → Treatment Plan), drastically reducing manual entry errors and ensuring data integrity.

Melanoma Detection Using ML | LEAD

Jan 2025 | Python, Machine Learning, CNN

- Helps in early identification of skin cancer, making treatment more effective and improving patient outcomes.
- Reduces the chances of human error by using machine learning to analyze skin images accurately.
- Can be used in mobile or web apps to make skin cancer checks more accessible to people everywhere.
- Can be expanded in the future to detect other types of skin diseases with more data and training.

Portable Micro Plastic Detector | LEAD

Nov 2025 | Esp32, C programming, Sensors, Data Processing

- Builds a portable system that detects micro plastics using optical readings and real-time signal analysis.
- Converts raw sensor output into measurable voltage levels to identify micro plastic presence accurately.
- Helps monitor water quality by offering a low-cost and efficient alternative to lab-based testing.

EDUCATION

BE Computer Science Engineering (IoT) | 2022 – 2026

Saveetha Engineering College

CGPA: 7.9

SKILLS

PROGRAMMING

Python • C • JAVA

TECHNOLOGY

Git/GitHub • Linux UNIX • Windows • Artificial Intelligence • Automation

CERTIFICATES

- IBM Z Global Hackathon event 2023 and 2024.
- Secured first place in inter college coding quiz event.
- Artificial Intelligence with Python in Infosys Spring board.
- IOT web interface development conducted by Novitech R&D Private Limited.
- Cloud Computing in NPTEL.
- Participated in Google Developer Students Club.
- Participated in All India Workshop on Parametric design using Fusion 360.

RELEVANT COURSE WORK

- Data Structures and Algorithms
- Object-Oriented Programming
- Software Engineering
- Operating Systems
- Networking Fundamentals
- Cybersecurity Principles
- Internet Of Things

LANGUAGES

- English
- Tamil