Mithurn Jeromme

+91-8056687515 | mithurnjeromme172@email.com | linkedin.com/in/mithurn-jeromme-s-k | github.com/Mithurn

Education

SRM Institute of Science and Technology June 2023 – May 2027 (Expected)
B.Tech in Computer Science and Engineering (Core); CGPA: 8.83 *Chennai, India*

Technical Skills

Languages: JavaScript, TypeScript, Python, C++, SQL
Frameworks/Libraries: Next.js, Node.js, Tailwind CSS, OpenCV, Pandas, Hugging Face
Tools/Platforms: Git, Vercel, PostgreSQL, Arduino IDE, ESP32 Microcontrollers
Domains: Full-Stack Development, AI & Machine Learning, NLP, Embedded Systems

Experience

Freelance Full-Stack Developer 2023 – Present
Upwork (Remote)

- Developed and deployed custom full-stack web applications with modern design and strong focus on user experience.
- Implemented robust backend systems using Node.js and PostgreSQL, integrated with responsive frontend interfaces built with Next.js and Tailwind CSS.
- Delivered highly functional, visually appealing websites tailored to client needs, improving their online presence and operational workflows.

Team Lead — HackOrbit Hackathon Final Round Jul 2025
HackOrbit National Hackathon *India*

- Led my team to develop an AI-powered bot aimed at preventing farmer suicides, integrating NLP and image diagnosis systems.
- Managed project architecture, task distribution, and final pitch to judges; reached final round among top national teams.

Projects

AI Medical Car Robot [Details] | *C++, ESP32, OpenCV, Arduino IDE* 2025

- Designed and developed a low-cost autonomous robot to assist hospital staff in real-time medicine delivery.
- Implemented onboard color-based navigation using OpenCV to detect red and green zones for precise movement in hospital corridors.
- Programmed motor control logic in C++ on ESP32 with fully local processing, eliminating cloud/server dependencies.
- Enabled real-time Wi-Fi video streaming for remote monitoring and future scalability.

Krishi Rakshak [GitHub] | *Python, Hugging Face, NLP, Computer Vision* HackOrbit 2025

- Designed an AI-based solution to reduce farmer suicides through intelligent systems in healthcare, prediction, and diagnostics.
- Developed in 36 hours during HackOrbit 2025; finalist among top national teams.
- Built a multi-layer AI system: Crop Autopsy AI (image-based crop health analysis), Distress Signal AI (mental health detection via language), and Future Vision AI (forecasting collapse zones).
- Accessible via 2G phones without apps or internet dependency, maximizing rural reach and impact.

Prompter AI [Demo] [GitHub] | *Next.js, TypeScript, Node.js, PostgreSQL, Tailwind CSS* 2025

- Created a fast, AI-powered productivity web app that converts natural language into structured task plans.
- Developed secure authentication, task management, and dynamic UI, with fast performance and clean user experience.
- Deployed on Vercel with full-stack implementation, including scalable backend APIs and modern frontend design.