A. M. ISMAIL

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Executive Summary

Production Engineering student focused on System Architecture and Rapid Prototyping. I specialize in designing distributed systems and utilize AI-augmented workflows to execute complex implementations efficiently. Tech-agnostic problem solver capable of deploying robust solutions across multiple environments.

Projects

Ct Ski (Local Colab) | *NFS, Jupyter Protocol, Docker, NextJS*   ↗ Source Code
- Established the **Ct-Ski Lab** in the Computer Technology department at MIT with 3 members to provide free cloud computing infrastructure for CS students The lab was inaugurated by the **CEO of Tekion** ,currently expanding the system into a full-fledged application for broader student use.

Virtual Lab for Metrology | *React, Docker, Nginx*   ↗ Source Repo
- Designed a high-concurrency Virtual Lab suite with a Profile Projector simulator. Optimized for 100+ RPS using Nginx and Dockerized React containers with an automated CI/CD pipeline using Docker Compose Watch with python script to synchronize multi-project builds from github.

CWM (CLI Workspace Manager) | *Python, Click, Rich*   🔗 Documentation
- Built a command-line tool to automate developer workspace setup, including session management, command saving/tracking, and project organization.

Anna University App | *Flutter, Dart, Hive*   ▶ Play Store
- Contributed to the frontend development of the official e-Governance app using Flutter. Assisted in UI/UX implementation for large-scale user adoption.

Chemical Treatment Plant Automation project(SRI energy) | *Soft Automation*
- To automate a chemical treatment plant for SRI Energy, Developed a prototype model using Arduino and sensors to monitor and control the overhead crane movement in a team of three.

Seven5: Attendance tracking app | *Flutter, Hive, Dart,Drive API*
- Mobile application to streamline attendance tracking for academic environments with a local database(hive) combined with the Google Drive API to ensure offline functionality as well as a cloud dashboard.

Education

Madras Institute of Technology, BE in Production Engineering   Aug 2023 – Present
CGPA: 7.61/10

School
- SSLC: Pass (2020-2021).
- HSC: 545/600 (2022-2023).

Skills

Software & Tools
- Git, GitHub, Docker, NGINX, Redis
- Firebase , Google cloud

CAD & Analysis
- SolidWorks, Creo, NX cad, Catia
- Abaqus CAE

Programming & Frameworks
- Flutter,Dart, React, NextJS
- Python .

Languages
- Tamil, English
- Arabic (Reading & Writing)

Experience

MITONAUR Motorsports (Go-Kart Team)   Dec 2024 – 2025
- Contributed to the design and analysis of the team's chassis for the TNKC and KEC championships.
- Gained experience in collaborative problem-solving within a competitive, team-based engineering project.