

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
CGPA: 7.61/10

Aug 2023 – Present

School

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

Skills

Software & Tools: Git, GitHub, Docker, NGINX, Redis, Firebase, Google Cloud

Programming & Frameworks: Flutter, Dart, React, NextJS, Python

CAD & Analysis: SolidWorks, Creo, NX CAD, CATIA, Abaqus CAE

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

Experience

MITONAU 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.