

# 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

### Languages

### CAD & Analysis

- SolidWorks, Creo, NX cad, Catia
- Abaqus CAE

- 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.