

# Nilambar Elangbam

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## PROFESSIONAL SUMMARY

Computer Science Engineering student with a strong passion for Data Analytics, Cloud, and IoT systems. Experienced in building robust, production-ready platforms and machine learning models. Proven leader and problem-solver focused on driving digital transformation through scalable, high-performance technology solutions.

## EDUCATION

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|---|-----------------------|
| • <b>Manipur Technical University (MTU)</b>       | Imphal, India         |
| <i>B.Tech in Computer Science and Engineering</i> | <i>2022 – Present</i> |
| • <b>Herbert School Changangei (COHSEM)</b>       | Imphal, India         |
| <i>Class XII; First Division</i>                  | <i>2022</i>           |
| • <b>Don Bosco High School Imphal (BOSEM)</b>     | Imphal, India         |
| <i>Class X; First Division</i>                    | <i>2020</i>           |

## EXPERIENCE

- **Data Science & Analytics Intern - Zidio Development (Remote: July 2025 - Oct 2025):** Completed a structured internship focusing on data science methodologies, statistical analysis and predictive modeling to inform data-driven decision-making, directly supporting the foundation for client insight generation.
- **Virtual Internship - AI & Data Analytics (Green Skills) - AICTE, Shell, Edunet Foundation (Virtual: Feb 2025 - March 2025):** Completed a 4-week virtual program focused on Artificial Intelligence and Data Analytics applications, specifically tailored for Green Skills and sustainable digital transformation initiatives.
- **IoT Intern - ALPR System Development - IHM under CubeTen Technologies (Imphal, India: July 2024 - Aug 2024):** Conceptualized and delivered a high-accuracy (95%) Automatic License Plate Recognition (ALPR) system proof-of-concept using OpenCV and the Google Cloud Vision API on a Raspberry Pi 4. Integrated a Node.js dashboard for real-time tracking, demonstrating foundational experience with cloud strategy.

## PROJECTS

- **IoT Weather & Environmental Monitoring System:** Implemented a full-stack, real-time monitoring system (ESP32, React 18, WebSockets) for predictive maintenance. Integrated Edge Computing using the Holt-Winters algorithm for autonomous trend forecasting and used Supabase (PostgreSQL) for secure data transmission.
- **Zenith (Student Result Management System):** Designed a comprehensive web system (Next.js, React, Firebase) to automate academic result processing, featuring role-based access control, automated SGPA calculations, and PDF report generation, demonstrating experience with enterprise-level solution development.
- **AQI Prediction Model:** Built and deployed an Air Quality Index (AQI) forecasting pipeline (Python, Scikit-learn) using the Random Forest Regressor, achieving high predictive accuracy ( $R^2 : 0.84$ ). The model was deployed as a web application using Streamlit, highlighting strong data analytics and POC capabilities.
- **SkillSwap (Peer-to-Peer Learning Platform):** Engineered a full-stack platform using Next.js 14, TypeScript, and Tailwind CSS. Implemented secure authentication with JWT and backend management using Node.js, Prisma ORM, and MongoDB Atlas.

## SKILLS

- **Languages:** C/C++, Python, JavaScript, MySQL
- **Web Technologies:** Next.js, Node.js, Tailwind CSS, HTML5
- **IoT & Cloud:** ESP32, Arduino, Raspberry Pi, Supabase, Firebase, Vercel
- **Data & Tools:** LATEX, MongoDB, OpenCV, Git, GitHub, VS Code, Linux, Microsoft Office Suite

## ACHIEVEMENTS AND RESPONSIBILITIES

- **1st Position in Creative Robo Design Competition:** Secured first prize at INNOTECH FEST 2025, organized by the Dept. of Science and Technology, Govt. of Manipur.
- **1st Position in Monthly Coding Competition:** Winner of the coding competition organized by the Programming & Robotics Club, MTU (March 2024).
- **General Secretary:** Currently serving as the General Secretary of the Programming and Robotics Club, MTU.
- **Technical Team Member:** Core member of the Technical Team for FENOMENON 2025, the annual technical festival of MTU.
- **House Leader:** Represented Loktak House as the House Leader during the University Annual Sports Meet.