Santhiya G

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EDUCATION

Kalaignarkarunanidhi Institute of Technology - Coimbatore   **2023 – 2027**
B.E – Electronics and Communication Engineering, Pre-Final year   Current CGPA**: 8.84/10.0**
Coursework: Digital Communication, Microprocessors & Microcontrollers, Digital Signal Processing (DSP), Control Systems, Linear Integrated Circuits, Analog & Digital Circuits, Communication Networks, Probability & Random Processes.

EXPERIENCE

Vengo Industries - Senjerimalai, India (Offline)   **Dec 2024**

- Gained hands-on knowledge of electrical systems, motor operation, and pump technologies, including centrifugal and submersible pumps.
- Worked with controllers, sensors, and variable frequency drives (VFDs) to understand speed control, energy efficiency, and system optimization.
- Learned industrial processes such as assembly, testing, troubleshooting, and quality checking of motors and pumps used in various sectors.

Web Development Intern | Appin Technology – Coimbatore, India (Offline)   **May 2025**

- Gained hands-on experience in front-end development using HTML, CSS, and JavaScript, focusing on responsive design and user-friendly interfaces.
- Learned the fundamentals of back-end programming using technologies like PHP/Node.js/Python (choose your actual one), including API handling and database connectivity

PROJECTS

A Robust Keeper-Assisted Domino Logic Approach for High-Performance D-Flip Flop Circuits   **Oct 2025**

- Designed and analyzed a high-speed D-Flip Flop circuit using keeper-assisted domino logic for enhanced robustness.
- Improved noise immunity and minimized charge sharing using optimized keeper transistor techniques.

Servo Distance Indicator   **Oct 2025**

- Developed an embedded system that measures distance using an ultrasonic sensor and displays the value using a servo motor indicator.
- Implemented microcontroller programming for real-time sensor reading and servo angle control.

TECHNICAL SKILLS

Java	C
HTML	CSS
SQL	GitHub
OOPS	SpringBoot

COMPETITIVE PROGRAMMING

CodeChef : Max Rating - **1105**

LeetCode : Max Rating - 1**495**

HackerRank : Hackos - **3713**

CodeForce : Max Rating - **433**

CERTIFICATIONS & COURSES

Infosys Springboard - Java Foundation	2024
Infosys Springboard – C Programming	2024
Coursera – IoT Communication	2025
Coursera–IoT and Embedded System	2025
Image Processing Onramp	2025
Infosys Springboard-IoT Edge Computing and IoT Analytics	2025
Infosys Springboard-Database Management System Part 1	2025
Infosys Springboard-Database Management System Part 2	2025

ACHIEVEMENTS

- I have completed my Three months Training and Internship at **GRANTLEY EDUTECH PRIVATE LIMITED** of Embedded System
- Attended Workshop on "**Antenna Design, Fabrication and Testing**".