

Antric K Nayakam

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SKILLS

Languages: C, Python, Java(Familiar), JavaScript(Familiar)

Developer Tools & Technologies: Git, GitHub, Linux(Familiar), Docker (Familiar), AWS (Familiar)

Area of Interest: Object-Oriented Programming, Operating Systems, DBMS

EDUCATION

PSG Institute of Technology and Applied Research

B.E. in Computer Science and Engineering — CGPA: 7.7

Coimbatore, TN

Oct 2022 – Present

Viswaprakash Central School

AISSE (Class XII) — Percentage: 97%

Thiruvananthapuram, KL

May 2021

EXPERIENCE

eSilicon Labs

Embedded Systems Intern

Coimbatore, TN

July 2024 – Sept 2024

- Developed a real-time, decentralized disaster alert system on an embedded IoT platform, programming in **C and Python** to enable rapid edge computing on resource-constrained devices.
- Engineered sensor simulation modules in Python to model 3 disaster scenarios (earthquake, flood, fire), achieving **98% accuracy** in event detection and system logic validation.
- Implemented robust, low-latency alert mechanisms including SMS notifications and text-to-speech (TTS) calls, ensuring message delivery to emergency services within **10 seconds**.

aXtr Labs

Web Development Intern

Coimbatore, TN

Sept 2024 – Oct 2024

- Developed a modern and responsive website using **Next.js, Framer Motion, and Tailwind CSS**, enhancing user engagement by **25%** and achieving a **40% faster page load time**.
- Designed **15+ custom animations and interactive components** and implemented Tailwind CSS's utility-first approach, showcasing strong **UI/UX skills** and reducing development time by 30%.

PROJECTS

Smart Grocery Management System— IoT-Based Inventory Monitoring System

Feb 2025 – Mar 2025

- Engineered an embedded inventory system using an **ESP32 microcontroller programmed in C**, interfacing with ultrasonic sensors for real-time stock level tracking.
- Designed lightweight data structures to manage inventory states in a memory-constrained environment, transmitting data to the **ThingSpeak cloud via REST APIs** for alerts and visualization.

ColaBoard — Cloud-Based Collaborative Task Manager

May 2024 – Jun 2024

- Architected and developed a full-stack collaborative task management platform using the **MERN stack (MongoDB, Express.js, React, Node.js)**.
- Engineered the backend for secure user authentication with JWT (JSON Web Tokens) and optimized database performance by designing an efficient **NoSQL schema** with indexing in **MongoDB**.

Polarity — Auto-Moderation using Sentiment Analysis

Nov. 2022 – Jan. 2023

- Developed **Discord Bot** that helps the team of moderators by flagging any user that uses bad language and also by giving them timeouts when required
- Developed minimum viable product(MVP) .
- Developed a score system for how the time-outs work

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ACTIVITIES ACHIEVEMENTS

- Contributed to various **Open Source** projects
- Lead the Web Development Wing of Google Developers Groups PSGiTech as Web Developement Lead.
- Organized and managed an industrial visit to SAP Labs, Bangalore for 50+ students.