

TANMAY TRIPATHI

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Adept with problem-solving, DSA, System Design and the urge to learn anything at hand, building solutions at ease.

EDUCATION

Btech In Electrical and Electronics Engineering, VIT Vellore 2022-2026

Courses : Java, Python, Embedded C, Embedded Systems Design, AWS for Cloud Computing, Machine Learning, Artificial Intelligence, DSA

SKILLS

Languages	C/C++, Java, Python, SQL, TypeScript, Javascript
Tools and Platforms	Git, GitHub, Vercel, Linux, MATLAB
Frameworks and Libraries	Next.js, React, Tailwind CSS, Java Collections
Developer Skills	DSA, System Design, DBMS, Shell Scripting

PROFESSIONAL EXPERIENCE

C++ Intern June 2025 - August 2025
Kineton <https://kineton.co/>

- Engineered a robust, multi-threaded data validation engine in Python, ensuring data integrity.
- Identified and refactored bottlenecks in the company's simulation pipeline, to optimize low-level memory management and algorithm complexity, boosting overall throughput.

PROJECTS

Int-rest - the intriguing index of your eerie books (07/25 - present)

A place for kids fed with all the boards school books. Select a book, select a chapter, get answers to all your questions, get podcasts and gamify learning.

Unix-like Shell *Github*

Developed a custom Unix-like shell from scratch using C++, implementing core functionalities and a REPL to handle user input with built-in commands (cd, exit, pwd), contributing to key project deliverables, including technical design and process handling.


Marketing Campaign Impact Simulator *Github*

Developed a Marketing Campaign Impact Simulator using Python (Google Colab), employing regression modeling and optimization to predict ROI from ad spend, with scenario simulations for strategic decision-making.

IoT-Based DAC System Modernising Machines Lab (07/25 - present)

Academic project to automate the process of taking manual readings using microcontroller (obtain data) and python open source models for execution and UI, in machines lab.

HOBBIES & ACTIVITIES

Senior Core VIT Music Club - Lead a college band for 2+ years, composer, lyricist, vocalist, released 2 songs  on all major music platforms getting 10,000+ spotify streams.

Hack the Dash - Learned and implemented power bi for a data analysis hackathon, and stood as a runner up

DSA and problem solving - Engaged in LeetCode contests, progressively improving with 1570+ rating and 200+ problems solved.