

# TANMAY TRIPATHI

Gmail ◇ LinkedIn ◇ Website

## SUMMARY

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Self-driven EEE student at VIT Vellore with experience in C++, embedded systems, and cloud computing. Completed hands-on projects in shell/interpreter development, and have a strong foundation in DSA problem solving skills through leetcode.

## EDUCATION

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

Relevant Course Work : Competitive Coding course, Microprocessor, Embedded C, AWS for Cloud Computing, Machine Learning, Artificial Intelligence, DSA

## SKILLS

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<b>Languages</b>	C/C++, Java, Python, SQL, TypeScript, Javascript
<b>Tools and Platforms</b>	Git, GitHub, Vercel, Linux, MATLAB, SpringBoot
<b>Frameworks and Libraries</b>	Next.js, React, Tailwind CSS, SpringBoot
<b>Developer Skills</b>	DSA, Shell Scripting, Embedded C, Database

## EXPERIENCE

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<b>C++ Intern</b> Kineton	May 2025 - present <a href="https://kineton.co/">https://kineton.co/</a>
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- Developed C++ software modules for Kineton's AI and semiconductor systems, focusing on the 'Baseplate' as well as 'Fabric' interface engine.
- Collaborated with 3 developers to design modules in C++ for intelligent hardware.

## PROJECTS

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(self-motivated code crafters projects)

**Build Your Own Shell** (02/2025 - 03/2025) Developed a custom Unix-like shell from scratch using C++ in which I implemented core functionalities: command parsing, process handling, I/O redirection. Also, designed a REPL to handle user input with built-in commands (cd, exit, pwd)

**Build Your Own Interpreter** (04/2025 - present) Have been working on designing an interpreter using parsing techniques and lexical analysis. Also Implementing variable assignments, control structures, and function calls etc

## LEADERSHIP & ACTIVITIES

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### Hack the Dash

Learned and implemented power bi for a data analysis hackathon, and stood as a runner up

### Senior Core VIT Music Club

An enthusiastic singer and managed a college band for 2 years

### Physical Fitness

Regular training and maintaining active lifestyle