

# TANMAY CHATURVEDI

Delhi, NCR

✉ [ctanmay043@gmail.com](mailto:ctanmay043@gmail.com)

🌐 [tanmay43](https://www.linkedin.com/in/tanmay43)

🔗 [tanmayc43](https://github.com/tanmayc43)

🌐 [tanmay.works](https://tanmay.works)

## EDUCATION

**Indian Institute of Information Technology, Guwahati**

B.Tech, Computer Science and Engineering

Expected May, 2027

CPI: 8.23/10

**St. Mary's Christian School, Ghaziabad**

Senior Secondary, Natural Sciences

2022

Percentage: 94.6%

## TECHNICAL SKILLS

**Languages:** C, C++, Java, Python, JavaScript, Golang

**Database:** PostgreSQL, MySQL, MongoDB

**Technologies:** React, Node.js, Express, Docker, Git

**Relevant Coursework:** Data Structures and Algorithms, Computer Organization and Architecture, Operating Systems, OOP, Artificial Intelligence, Database Management Systems

## EXPERIENCE

**Sopra Steria**

Software Engineering Intern

May, 2025 - Present

*Node.js | React | Express | PostgreSQL | Docker*

- Developing and enhancing a collaborative platform for efficient information management and sharing, using technologies such as **React**, **Node.js**, and **Docker**.
- Contributing across the full development lifecycle, including feature design, implementation, debugging, and performance optimization, resolving diverse frontend and backend challenges to enhance UX and system reliability.

## PROJECTS

**TheChoicelsYours** (Ongoing) 🤖 🌐

AI-powered movie picker leveraging NLP and semantic search for personalized film recommendations.

- Developed a Matrix-themed website with **React**, featuring responsive design with **Tailwind CSS**, immersive animations via **Framer Motion**, and 3D effects powered by **Three.js**.
- **Docker**-containerized backend with **Golang** and **Colly** for dynamic scraping.
- AI-driven recommendations using the **Gemini API** for prompt-based, **NLP**-enabled movie suggestions.
- Building a custom, fine-tuned **sentence-transformer** model for advanced **semantic search** and personalized movie recommendations.

**SnipSort** 🤖

Collaborative code snippet manager enabling users to organize, share, and manage reusable code fragments.

- Responsive web app built with **React**, **Tailwind CSS**, and **shadcn/ui**.
- Developed a **Docker**-containerized backend with **Express** and **PostgreSQL** for robust data management.
- Enabled secure user authentication with **JWT** and **bcrypt**, and implemented multi-user project collaboration with role-based access.

**Lunar Lander RL Agent** 🤖

Reinforcement learning agent trained to autonomously land a spacecraft in **LunarLander-v3**.

- Implemented a **PPO-based policy** in **Python** with **Stable-Baselines3**, trained over **1 million time steps**.
- Optimized **hyperparameters** via grid search, improving performance by **40%**.
- Saved the **best-trained model** for deployment, reducing computation time by **30%**.

## ACHIEVEMENTS

- **Advanced** to Level 2 of Flipkart Grid 6.0 Software Development Track, outperforming over **99.7%** of participants, based on code efficiency and algorithm design in the initial challenge.
- Selected as a **National Finalist** in **Inspirathon 2025**, a premier innovation challenge by E-Cell, IIIT Guwahati.
- **Qualified** for round 3 of Tata Imagination Challenge 2024, ranking in the **top 7,000** out of **300,000+** participants.
- Solved **360+** algorithmic problems on **Leetcode** and earned the 100 Days 2025 challenge badge.
- **Pupil** on **Codeforces** with a max rating of **1359** and **3-star coder** on **Codechef** with a max rating of **1629**.
- Ranked **311<sup>th</sup>** nationally and **2<sup>nd</sup>** in IIIT Guwahati in the ICPC 2024 India Preliminary Practice Round.
- Ranked **1124<sup>th</sup>** globally in Codeforces Round-948, Div-2 programming contest.
- Ranked **214<sup>th</sup>** globally in Codechef Starters-141, Div-3 programming contest.