Tanmay Dey

Kalyani, West Bengal, India
+91 6289180127 tanmaydey005@gmail.com LinkedIn GitHub Portfolio

Education

Brainware University **Kolkata, West Bengal, India**
B.Tech in Computer Science Engineering (AI & ML); CGPA: 8.4/10 *Expected July 2028*

Technical Skills

Languages: Python, TypeScript/JavaScript, Go, Java, C++, Rust, Solidity, SQL, HTML, CSS
Web & Backend: Next.js, React, Django, FastAPI, Flask, REST APIs, Tailwind CSS, PWA, Three.js, WebGL
Databases & Cloud: PostgreSQL, Supabase (Auth, RLS, pgvector), Vercel, Render
AI/ML: Generative AI, Agentic AI, Gemini API, LangGraph, Ollama (local LLMs), Google AI Studio, EDA
Tools: Git, GitHub, Docker, FFmpeg, Pytest, Discord Bots

Experience

CodeAlpha **Remote**
Backend Development Intern (Virtual Internship); Letter of Recommendation received *Oct 2026*

- Built a **Restaurant Management System** (Django, Tailwind CSS) with **0%** table double-booking, atomic inventory deduction on every order and a protected staff dashboard `(GitHub)`
- Built **EventMaster** (Django), an event registration platform with admin event management, user login, seat-capacity limits, duplicate-registration checks, a personal dashboard and automated tests `(GitHub)`
- Built **ZipLink** (Flask, SQLAlchemy), a URL shortener that generates collision-resistant nanoid codes in **0.5 ms**, serves HTTP 302 redirects and tracks clicks per link, tested with Pytest `(GitHub)`

Gameonix Esports & Gaming
Web Backend Developer Intern *Jan 2026 – Apr 2026*

- Moderated a gaming Discord server automatically by building a bot that uses an LLM check and configured rules to tell genuine promotions from spam and remove abusive or spam senders, correctly handling **62 of 65** test spam messages (**95%**)
- Added scam-link blocking, new-member greetings and conversation management; recognised by the Director & CEO

Projects

TripGenius | AI Travel Advisory Platform | *Next.js*, *TypeScript*, *PostgreSQL* `(Live)`

- Built a full-stack AI travel planner that turns user preferences into a personalized itinerary end to end (**32 s** average over test runs) using Next.js, TypeScript, fast AI APIs and PostgreSQL

Snaptube-Clone | Media Extraction Engine | *Go*, *Python*, *FFmpeg*

- Architected a concurrent media-processing engine in Go and Python that runs up to **5** video or image jobs in parallel reliably
- Built an FFmpeg rendering pipeline with hardware-adaptive scaling that adjusts output to the host machine

Vernacular AI | Global Artisan Storefront | *Next.js*, *FastAPI*, *Supabase* `(GitHub)` `(Live)`

- Enabled weavers to publish a listing from up to **8** photos and a voice note in **3** languages (English, Bengali, Hindi) by using Gemini 2.5 Flash to generate the catalog with INR and USD prices
- Opened **2** checkout routes at **0%** commission (UPI QR and WhatsApp for local, PayPal for global buyers) by building dual-currency checkout
- Kept the studio usable offline by building an installable PWA with an IndexedDB queue that syncs on reconnect

Achievements

- **Hackathons:** National Finalist, **hackFront India 2026** (Golden Ticket, IIIT Delhi, New Delhi); Finalist, **Smart India Hackathon 2026**; Submitted Vernacular AI to the **PayPal AI Hackathon** and the **Sewa First Innovation Challenge 2026**; also HyperFusion 2K26, Texibition 2025–26 and Hacktoberfest 2026 (2 hackathons).
- **Events:** AWS Builder Center: Future Builders Connect, Kolkata; OpenAI Student Collective, Prompt-to-Website Building event (Brainware University).
- **Certifications:** Oracle Certified Foundations Associate, Agentic AI (2026); Linux Foundation LFC104, Ethics for Open Source; Nasscom FutureSkills Prime (Generative AI Literacy, Gen AI 101, EDA).
- **Competitive Programming:** Active on LeetCode (data structures, arrays, linked lists).