TUSAR GOSWAMI

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SKILLS

- **Languages:** Java, C++, TypeScript, JavaScript, Python, Dart, PHP
- **Frameworks & Libraries:** React.js, React Native, Node.js, Express.js, Flutter, LangChain, LangGraph, Angular, .NET
- **Tools / Platforms**: Docker, Kubernetes, AWS, Firebase, Vercel, Git, GitHub Actions, MySQL, MongoDB, Postgres
- **Core Concepts:** DSA, OOPs, DBMS, OS, Computer Networks, System Design, REST APIs, AI Agents, RAG
- **Soft Skills**: Problem-Solving, Leadership, Adaptability, Quick Learner

EXPERIENCE

Open-Source Contributor – GSSoC 2026 | GirlScript Summer of Code | **Certificate** May 2026 – Present

- Contributed to **UltimateHealth** (2,500+ PRs, 100+ contributors), an open-source cross-platform health ecosystem built with **React Native**, **TypeScript**, and **Expo**.
- Featured on the official **Contributors Hall of Fame** for engineering core client-side wellness calculation engines (Karvonen target heart-rate zones, sleep architecture quality scores, and hydration targets).
- Patched edge-case URL encoding vulnerabilities in podcast streaming services, ensuring robust playback across tokenized and parameterized audio streams.
- Standardized repo-wide contribution governance and Git branch workflows in CONTRIBUTING.md, adopted by incoming contributors to streamline CI/CD checks.

PROJECTS

The Deal Desk – AI Investment Research Agent | GitHub | Live July 2026

- Architected a 7-node multi-agent investment pipeline using **LangGraph** with parallel fan-out/fan-in debate agents, conditional rebuttal routing, and a deterministic 5-dimension scoring algorithm, eliminating LLM scoring variance.
- Engineered a 3-model Gemini fallback chain with automatic quota-pool switching, Zod-based schema validation, and retry logic, reducing pipeline failure rate to near-zero on free-tier quotas.
- Delivered a full-stack AI application (**React.js, Node.js**, Express.js) with an async 2-phase API (POST 202 to SSE stream) for real-time agent output, fire-and-forget PostgreSQL persistence, and input sanitization.
- Integrated the Tavily API for live market research retrieval, grounding multi-agent investment recommendations in real-time financial data.

Tech Stack: JavaScript, LangGraph, LangChain, Tavily API, Node.js, React.js, PostgreSQL

Head-2-Code – Gamified Competitive Coding Platform | GitHub | Live Oct 2025 – Mar 2026

- Built a real-time competitive coding platform supporting 50+ concurrent users with friend challenges, custom contests, and daily problems via **Socket.IO**, achieving sub-300 ms end-to-end latency.
- Leveraged **Judge0 API** and **Monaco Editor** to deliver multi-language code execution across 10+ languages, with an average verdict response time of ~250 ms.
- Deployed an AI-powered debugging assistant via Gemini API for complexity analysis and code review, running on a horizontally scalable Node.js/MongoDB backend hosted on AWS EC2.

Tech Stack: React.js, Node.js, Express.js, MongoDB, Judge0 API, Socket.IO, Monaco Editor, AWS EC2, Gemini API

SUMMER TRAINING

Mobile Application Development using Flutter | Certificate Jun 2025 – July 2025

- Developed and deployed cross-platform mobile applications using Flutter and Firebase, implementing modular state management and clean architecture.
- Built responsive, accessible UI layouts with custom themes across Android and iOS devices, integrating unit and widget testing to ensure zero regression.
- Engineered an enterprise document approval and audit history module, optimizing local data persistence and reducing approval turnaround time by 30%.

Tech Stack: Flutter, Firebase, GitHub, VS Code

ACHIEVEMENTS

- Secured Global Rank 746 among 34,000+ participants in LeetCode Biweekly Contest 176.
- Reached the finals among 5,000+ participants in Fynd Hacktimus 2025.
- Earned 5-star ratings in Java and C++ on HackerRank, demonstrating strong programming proficiency.
- Solved 300+ algorithmic problems across LeetCode, CodeChef, and GeeksforGeeks, showcasing strong DSA skills.

CERTIFICATIONS

- Oracle Cloud Infrastructure — Oracle University | Link — May 2026
- ChatGPT-4 Prompt Engineering: Generative AI and LLM — Infosys Springboard | Link — Aug 2025
- Cloud Computing — NPTEL IIT Kharagpur | Link — Apr 2025

EDUCATION

Lovely Professional University Punjab, India
Bachelor of Technology – Computer Science and Engineering | *CGPA:* **7.86 / 10.0** *Aug 2023 – Present*
Relevant Courses: *Object-Oriented Programming, Data Structures, MERN Full-Stack Development*

Mandalkuli Netaji Vidyapith Raipur, West Bengal
Intermediate: 80.4% | *Matriculation: 90.0%* *2021 – 2023*