

# Tusar Goswami

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## SKILLS

- **Languages:** Python, Java, C++, JavaScript (ES6+), TypeScript
- **Frameworks & Libraries:** React.js, Redux, Node.js, Express.js, Three.js, React Three Fiber, Flutter, Flask, Tailwind CSS
- **Tools & Platforms:** MySQL, MongoDB, Git, GitHub, Postman, Vercel, Figma, AWS (EC2)
- **Core CS Fundamentals:** DSA, OOP, DBMS, Operating Systems, Computer Networks, System Design
- **Soft Skills:** Problem-Solving, Teamwork, Leadership, Adaptability

## PROJECTS

### Head-2-Code – Gamified Competitive Coding Platform | GitHub | Live Oct '25 – Mar '26

- Engineered a real-time competitive coding platform with friend-based challenges, custom contest creation, and daily practice problems using **Socket.IO**, supporting **50+ concurrent** users with **<300 ms** latency.
- Established a full online judge via **Judge0 API** and **Monaco Editor** to enable multi-language code execution, instant verdicts, and optimized test-case evaluation with **~250 ms** average submission response time.
- Devised an AI-powered coding assistant with **Gemini API** for complexity analysis, hints, and debugging support; architected a secure **Node.js**, **Express.js**, and **MongoDB** backend and deployed the platform on **AWS** for scalable cloud hosting and reliable real-time performance.

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

### Zarvis – Autonomous AI Assistant Ecosystem | GitHub Sep '25 – Mar '26

- Developed a modular AI assistant capable of voice interaction, browser automation, and intelligent task execution using **Python** and **Selenium**.
- Implemented an intelligent command interpretation module using **Gemini API** to convert natural language instructions into executable system actions to reduce manual task effort for repetitive workflows.
- Constructed a multi-threaded architecture with hotword detection and system-level task execution to enable real-time AI interaction and workflow automation.

**Tech Stack:** Python, Google Gemini API, Selenium, SQLite

### Cosmic Voyage – Interactive 3D Developer Portfolio | GitHub | Live Dec '25 – Feb '26

- Built an immersive 3D developer portfolio where users explore a procedurally generated galaxy and discover projects, skills, and achievements via interactive planets.
- Integrated real-time 3D rendering and smooth camera movement with **Three.js** and **React Three Fiber** for interactive exploration with dynamic animations and particle effects.
- Designed a cross-device compatible space-themed interface with modern **glassmorphism UI** and **animated transitions** to enhance user engagement across desktop, tablet, and mobile devices.

**Tech Stack:** React.js, Three.js, React Three Fiber, TypeScript, Tailwind CSS

## TRAINING

### Mobile Application Development Using Flutter – Lovely Professional University | Certificate Jun '25 – Jul '25

- Created a mobile interface using **Flutter**, **Dart**, **Material UI**, and modular routing to replicate a complete university management workflow with high visual fidelity.
- Structured a multi-layer application architecture with authentication panels, dashboard routing, attendance logs, result modules, timetable access, assignment tracking, and exam integration.
- Optimized performance through structured drawer panels, bottom navigation logic, responsive layout behavior, external link handling, and stable state control across screens.

**Tech Stack:** Flutter, Dart, Material UI, URL Launcher

## CERTIFICATES

- ChatGPT-4 Prompt Engineering: ChatGPT, Generative AI & LLM – Infosys Springboard | [Link](#) Aug '25
- Cloud Computing – NPTEL IIT Kharagpur | [Link](#) Apr '25
- Computer Communications | University of Colorado, USA | [Link](#) Dec '24

## ACHIEVEMENTS

- Ranked in the top 15% globally in LeetCode Weekly and Biweekly contests (20,000+ participants). Feb '26
- Earned 5-star ratings in Java and C++ on **HackerRank**; solved 300+ problems across **LeetCode**, **CodeChef**, and **GFG**. Mar '26

## EDUCATION

**Lovely Professional University** Punjab, India  
*Bachelor of Technology – Computer Science and Engineering; CGPA: 7.5* Aug '23 – Present

**Mandalkuli Netaji Vidyapith** Raipur, West Bengal  
*Intermediate; Percentage: 80.4%* Mar '22 – May '23

**Mandalkuli Netaji Vidyapith** Raipur, West Bengal  
*Matriculation; Percentage: 90.0%* Jan '20 – Feb '21