



Tara Chand

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B.Tech. - Civil Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	Indian Institute of Technology, Guwahati	8.55 (Current)	2023-Present
Senior Secondary	Central Board of Secondary Education	94.4%	2022
Secondary	Board of School Education, Haryana	92.8%	2020

EXPERIENCE

- Outsyde - Adventure Booking Platform** May 2026 – Jul 2026
Full-Stack Developer Intern Remote
 - Designed a **51-table PostgreSQL database** with **Prisma**, connecting treks, trips, bookings, payments, referrals, and payouts. Used relational constraints, price and address snapshots, soft deletes, and **append-only audit logs** to maintain data accuracy.
 - Built a **9-section admin console** with role-based permissions across **64+ APIs**, covering provider KYC, user management, refunds, disputes, commissions, and payouts. Fixed a payment race condition using **row-level locking** to prevent duplicate refunds.
 - Developed the booking platform with consumer and provider portals, **retry-safe payments** with duplicate-charge protection, and a loyalty wallet system. Added discovery features such as fuzzy search, trending rankings, and sponsored listings.

PROJECTS

- GameHub - Multi-Game Platform** | *Group Project* Mar 2026 | Website | GitHub
 - Developed a multi-game platform using Node.js, Express, and MongoDB, supporting **5+ games** through unified backend architecture.
 - Secured authentication with **JWT + bcrypt** and OTP email verification for signup and password reset, using Brevo for emails.
 - Enabled **real-time multiplayer** for Ludo using **Socket.IO**, with turn and dice validation to prevent game-state manipulation.
 - Architected a shared game engine for reusable scoring and rules, ensuring consistent logic and adding games without backend changes.
- Smart Traffic Command Center** | *Flipkart Gridlock 2.0 Hackathon* May 2026 | Website | GitHub
 - Engineered **64 key features** from **8,173** traffic incidents and trained gradient-boosting models, achieving **0.989 ROC-AUC**.
 - Formulated a data-driven severity score using **PCA-weighted blending** across 7 indicators, generating actionable recommendations.
 - Developed a **Streamlit** dashboard with a map predictor, model thresholds, and prediction history using reliable crash-safe writes.
 - Established a leakage-safe pipeline using clusters, priority encodings, and training-fitted scalers, ensuring reliable model evaluation.
- TextLite - Terminal Text Editor** | *Personal Project* Jun 2026 - Jul 2026 | GitHub
 - Developed a terminal text editor in **C++17** using a singly linked list for line storage, supporting create, edit, search, and delete.
 - Structured an encapsulated **TextEditor** class, eliminating global state with explicit manual memory management using raw pointers.
 - Achieved **O(1)** line insertion and deletion through pointer-based linked-list splicing, validated with unit tests for boundary cases.
 - Integrated code compilation through a menu-driven CLI with zero external libraries, syntax highlighting, and file management.
- ForgeMind - Document Intelligence Platform** | *Economic Times AI Hackathon 2.0* Jul 2026 | Website | GitHub
 - Engineered a scalable knowledge retrieval engine using **FastAPI** to enable **Retrieval-Augmented Generation** pipelines efficiently.
 - Integrated source-linked retrieval using MongoDB and ChromaDB to process complex unstructured text data more efficiently at scale.
 - Combined **keyword** and **semantic search** into a **hybrid document retrieval pipeline** for precise query matching and ranking.
 - Developed an evidence-grounded answering system with citations, temporal filtering, and checks to refuse unsupported queries.

TECHNICAL SKILLS

- Programming Languages:** C, C++, Python, JavaScript
- Web and Backend:** React, Next.js, Tailwind CSS, Node.js, Express, REST APIs, WebSockets
- Databases:** MySQL, PostgreSQL, MongoDB, Firebase*
- DS and ML:** NumPy, Pandas, Matplotlib, Seaborn, scikit-learn, TensorFlow, Keras, LangChain*
- CS Fundamentals:** OOPs, DBMS, Operating Systems, Computer Networks
- Tools and Technologies:** Git, GitHub, Postman*, MATLAB*, $\LaTeX$ * * Elementary proficiency

KEY COURSES TAKEN

- Mathematics:** (MA 102) Linear Algebra and Multivariable Calculus, (MA 201) Complex Analysis, (MA 101) Real Analysis
- Computer Science:** (CS 101) Introduction to Computing, (CS 110) Computing Laboratory

ACHIEVEMENTS

- Silver Flag Winner**, Selected in the **Top 75** among **30K+** registrations for the Cisco Code-a-thon finals, Bangalore 2026
- Top 1.9%**, MyCareernet HackVega 2.0, national coding challenge among **47K+** participants 2026
- Top 4.4%**, Flipkart Gridlock 2.0, ML and Data Science hackathon, among **35K+** participating teams 2026
- Semifinalist**, Flipkart GRiD 8.0, Software Development Track, among **150K+** participants nationwide 2026
- Semifinalist**, Economic Times AI Hackathon 2.0, national AI innovation challenge, among **60K+** participants 2026
- Specialist** on Codeforces, Global Rank **886** among **20K+** participants in Round 1117 (Div. 2) Link
- 3★** at CodeChef, (Max. Rating: **1650**), Global Rank **146** among **5K+** participants in Starters 236 Link
- Competitive Programming**, Solved **1200+** DSA problems across Codeforces, CodeChef, LeetCode & AtCoder Link

EXTRA-CURRICULAR ACTIVITIES

- Student Mentor**, Mentored **750+** students preparing for JEE at **Physics Wallah** 2024
- Participant**, Meta Hacker Cup, Meta's global competitive programming contest 2024
- Core Team**, **Public Relations and Branding**, Alcheringa'26 (Cultural Fest), IIT Guwahati 2026