

ADRIJA CHATTERJEE

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OBJECTIVE

Motivated Computer Science Engineering undergraduate at IEM Kolkata with hands-on experience in full-stack web development, REST APIs, and AI-integrated applications. Seeking software engineering, product development, or backend engineering roles to contribute to scalable, user-centric systems in a collaborative Agile environment.

EDUCATION

B.Tech — Computer Science and Engineering | **Institute of Engineering & Management** | Kolkata, WB
Aug 2024 – May 2028

Relevant Coursework: Data Structures & Algorithms, OOP, Database Management Systems, Computer Networks, Operating Systems, Web Technologies

ISC — Class XII | **Auxilium Convent School** | Kolkata, WB 2024
Score: 83.2%

ICSE — Class X | **Auxilium Convent School** | Kolkata, WB 2022
Score: 90.2%

EXPERIENCE

Product Engineering Intern | **IEM Research Foundation (Chrysalis)** | Kolkata, WB *May 2026 – Jul 2026*

- Engineered and shipped 3+ product features under the Chrysalis initiative, reducing user workflow steps by ~20% through iterative UI/UX improvements.
- Collaborated in an Agile team of 6 to design, test, and deploy full-stack components using JavaScript and REST APIs, reducing bug count by 15% across sprint cycles.
- Translated product requirements into technical specifications and functional prototypes, contributing to 2 milestone releases delivered ahead of schedule.
- Conducted unit and integration testing using structured QA workflows, improving feature stability across production and staging environments.

Study Abroad — Tech Immersion Program | **University of New South Wales** | Sydney, Australia *May – Jun 2025*

- Completed an intensive interdisciplinary program spanning Cybersecurity, Neural Networks, Web Development, Virtual Reality, and AI Systems design.
- Solved 5 real-world case studies and delivered working prototypes across domains including DDoS defense simulation and a responsive web application.
- Gained applied knowledge in scalable system design, UX testing methodologies, and cybersecurity fundamentals from industry and academic experts.

PROJECTS

Raahe — Travel Companion Platform — *React.js, Node.js, REST APIs, MongoDB, Responsive CSS*

- Built a full-stack travel companion platform enabling itinerary planning and destination discovery for 50+ test users, with dynamic data rendering and user-specific state management.
- Architected a scalable REST API backend with MongoDB to handle concurrent user sessions, supporting real-time recommendations and efficient CRUD operations.
- Implemented mobile-first responsive UI with clean component architecture, reducing page load time by 30% through lazy loading and optimized API calls.

URL Shortener Service — *Node.js, Express.js, SQL, Base-62 Encoding*

- Designed and deployed a URL shortening service using base-62 encoding with collision-safe unique ID generation and redirect tracking.

- Built a performant SQL-backed backend optimized for O(1) lookup, handling 1,000+ redirects in local load testing without performance degradation.
- Implemented collision handling logic and analytics-ready architecture to support future horizontal scaling.

Billaboost — AI-Powered Time Tracker — *Python, AI/ML APIs, Data Visualization, REST*

- Developed an AI-integrated productivity tool that automatically categorizes and logs user work sessions, reducing manual time-tracking effort by 40%.
- Integrated an ML-based activity classification model to analyze task patterns and generate weekly productivity insights.
- Designed a real-time dashboard with data visualization charts for tracked hours, task breakdown, and efficiency trends.

TECHNICAL SKILLS

Languages: C, C++, Java, Python, JavaScript, SQL, TypeScript (basic)

Web Development: HTML5, CSS3, React.js, Node.js, Express.js, REST APIs, Responsive Design

Databases: MongoDB, MySQL, PostgreSQL (basic)

Tools & Platforms: Git, GitHub, VS Code, Replit, Render, Google Cloud Platform, Postman

Concepts: Data Structures & Algorithms, OOP, MVC Architecture, Agile/Scrum, Unit Testing, Prompt Engineering

AI & ML: AI API Integration, Prompt Engineering, Neural Networks (basic), Model Evaluation

LEADERSHIP & EXTRACURRICULAR

Lead — Delegate Affairs | IEM Model United Nations (IEMMUN'26) | Kolkata *2026*

- Spearheaded delegate operations for 100+ participants, managing team communications, scheduling, and onboarding for a seamless conference experience.
- Previously served as Executive Board member at IEMMUN'25, moderating committee sessions and mentoring delegates through formal diplomatic debate.

Core Member — Delegate Affairs | Rotary Forum of Diplomacy | Kolkata *2025 – Present*

- Managed delegate relations and inter-organization communications, coordinating logistics for 80+ attendees across multiple forums.

School Prefect & Captain | Auxilium Convent School | Kolkata *2023 – 2024*

- Led a team of 15 student council members, organizing 8+ school events and maintaining oversight across a 500+ student body.

CERTIFICATIONS & ARTS

- **Cybersecurity Fundamentals** — DDoS mitigation, phishing defense, and system security; completed as part of UNSW study abroad program.
- **Diploma in Kathak Classical Dance** — demonstrating sustained discipline, performance under pressure, and long-term creative commitment.
- **Diploma in Fine Arts / Drawing** — reflecting visual communication skills and design sensibility applicable to UI/UX work.