Debarati Seal

LinkedIn: debarati-seal
GitHub: dfordebarati

Email: dfordebarati@gmail.com
Mobile: +91 7439302601
Portfolio: debarati.runs-on.dev

Education

- **RCC Institute of Information Technology (RCCIIT)** — Kolkata, WB, India
  B.Tech in Information Technology, 3rd-Year YGPA: 8.16/10 — *Sep 2023 – Jun 2027 (Expected)*

Experience

- **IELTS Proficiency** — Remote
  Full-Stack Developer Intern — *July 2025 – September 2025*
  - **End-to-End Delivery:** Sole developer on three client products (two full-stack PWAs and a landing site) in Next.js, TypeScript and Supabase, owning the PostgreSQL schema, REST APIs and UI.
  - **Client Engagement & Process Mapping:** Worked directly with the founder to replace a workflow run on spreadsheets and WhatsApp with a role-based app, scoped the MVP and demoed builds weekly.

- **Google Developer Student Club – RCC IIT** — Remote
  Web & Web3 Associate — *September 2024 – September 2025*
  - **Technical Communication & Mentorship:** Organized online technical events of around 100 attendees and mentored students in open-source contribution, Git/GitHub workflows and debugging.

Projects

- **Journey Sync – Study Abroad Platform** — Live Demo
  - Built a role-based PWA that moves a study-abroad agency off spreadsheets and WhatsApp, so documents, chat and application status live in one place.
  - Integrated Gemini to read passports and transcripts and verify them against profiles at **98% accuracy**.
  - Cut API latency **5x** (1.0 s to 0.2 s) by co-locating the serverless functions with the database.
  - Secured with signed sessions and input validation; **470 unit tests** run in CI/CD to AWS ECS.
  - **Tech:** Next.js, TypeScript, PostgreSQL, Supabase, Gemini API, Docker, AWS ECS, GitHub Actions

- **Refined Gatherings – Event Booking Platform** — Live Demo | GitHub
  - Built a MERN event-booking platform with JWT auth, admin roles, Razorpay payments, QR tickets and refunds.
  - Solved the classic ticketing race condition: one atomic database update ensures only one person gets the last seat when many book at once.
  - Added an admin dashboard on MongoDB aggregations, with **70 automated tests** covering concurrency.
  - **Tech:** MongoDB, Express.js, React, Node.js, JWT, Razorpay

- **MedHive – Federated Medical AI Platform** — Live Demo | GitHub
  - Built the web app for a team platform where hospitals train medical AI models without sharing patient data.
  - Integrated the ML team's model APIs into interfaces for symptom analysis, results and real-time chat.
  - **Tech:** Next.js, TypeScript, Tailwind CSS, Groq

- **Zenith – AI Project Management Platform** — Live Demo | GitHub
  - Built the web app for a platform where AI agents turn requirements into tasks assigned by skills and cost.
  - Built the landing page, company onboarding and the employee dashboard for task tracking, search and filters.
  - **Tech:** Next.js, TypeScript, Tailwind CSS, MongoDB

Skills Summary

- **Languages:** Java, JavaScript, TypeScript, SQL, HTML, CSS
- **Core CS:** Data Structures, Algorithms, Complexity Analysis, Object-Oriented Design, Operating Systems, DBMS
- **Backend, Data & AI:** Node.js, Express.js, REST APIs, PostgreSQL, MongoDB, Supabase, Gemini API, Groq
- **Frontend:** React.js, Next.js, Context API, TanStack Query (React Query), Tailwind CSS
- **Cloud & DevOps:** AWS (ECS Fargate, ECR, CloudFormation, IAM), Docker, GitHub Actions (CI/CD), Vitest

Honors / Awards / Achievements

- **Top 3 among 790+ projects, HackHazards 2025**, a global hackathon with 2,900+ participating teams.
- **4th Place, AIgnite Hackathon 2025**, East India's largest AI hackathon.
- **1st Place, Techtrix 2025**, Software Development track at RCCIIT's annual tech fest.
- **Top 50 Campus Ambassador (ranked #27)**, GirlScript Summer of Code 2024 Extended.
- **Postman API Fundamentals Student Expert**.