Abhraneel Karmakar

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Education

- **Academy Of Technology** — Hooghly, India
  Bachelor of Technology - Computer Science & Engineering; GPA: 8.53 (Till 5th semester) — *July 2022 - June 2026*
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Networking, Databases*
- **Kendriya Vidyalaya Barrackpore (AFS)** — Palta, West Bengal, India
  All India Senior School Certificate Examination; Marks: 90.8% — *April 2020 - March 2022*
  Courses: *Physics, Chemistry, Mathematics, English, Computer Science*
- **Kendriya Vidyalaya Barrackpore (AFS)** — Palta, West Bengal, India
  All India Secondary School Examination; Marks: 95.2% — *April 2018 - March 2020*
  Courses: *Science, Mathematics, English, Hindi, Social Science*

Skills Summary

- **Languages**: Python, C++, JavaScript, SQL, Bash, JAVA
- **Frameworks**: Bootstrap, Tailwind Css, TypeScript, React, NextJS, NodeJS, ExpressJS
- **Tools**: Firebase, GIT, MySQL, Vercel
- **Platforms**: Linux, Web, Windows, Arduino, GCP
- **Soft Skills**: Problem Solving, Communication, Leadership, Event Management, Writing, Public Speaking, Time Management
- **Languages Known**: English, Bengali, Hindi

Projects

- **Police Record Management System**: Developed an AI-powered system to automate police record categorization and intelligent search. AI-based name normalization, advanced search, role-based access control, and crime data visualisation. Reduced record processing time by 60% and improved name matching accuracy by 85%. Tech: Next.js, Tailwind CSS, Gemini AI API, Firebase, Vercel (April '25)
- **Career Compass (AI powered career counselling website)**: Built an AI-driven career guidance platform providing personalized recommendations and insights. Tech: React, Tailwind CSS, Mistral AI, Firebase, Vercel. (April '25)
- **News 60 (60 Words News shortener)**: Designed a news aggregation platform delivering 60-second news summaries. Category filtering, AI summarization, bookmarking, offline mode, personalized feeds. Tech: React, Tailwind CSS, News API, Firebase (March '25)
- **Temperature and Humidity Monitoring System (Internet Of Things)**: IoT system for real-time environmental monitoring. Developed a connected sensor system with web dashboard for data visualization Hardwares: Node MCU, DHT11 sesnsor (April '24)
- **Maezy: MAZE Solving Robot (Web Development, Web Crawler, Search)**: Autonomous robot capable of navigating complex mazes, Implemented optimized pathfinding algorithms using ultrasonic and IR sensors. Hardware: Arduino UNO, Ultrasonic sensors, IR sensors (April '24)

Honors and Awards

- Top 3 at Clash Devs (Web Development Competition): TechFiesta'25 - April, 2025
- Winner at Entangled (Maze Solving Competition): TechFiesta'24 - April, 2024
- Second Runner's Up at SymbIoT (Solving Real world Problem using IoT): TechFiesta'24 - April, 2024
- Best Project Work Flow Track Winner at InterHacktive Hackathon - September, 2023

Volunteer Experience

- **Organizer of Apertre 2.0** — Kolkata, India
  Organized Bengal's largest open-source event, engaging over 3000 students. — *Jan 2025 - Apr 2025*
- **Core Member of FrostHacks** — Hooghly, India
  Hosted a 36-hour hackathon at AOT, attracting participation from 1000+ students. — *Jan 2025 - Feb 2025*
- **Design Lead at Google Developer Groups On Campus AOT** — Hooghly, India
  Facilitated online and offline technical and soft-skills training, empowering 1000+ students. — *Jul 2024 - Present*
- **Design Lead at Resourcio Community** — Kolkata, India
  Led a team of designers, boosting community growth by 150%. — *Sep 2024 - Present*
  Delivered Developer Conference ResCon'25, connecting with over 500 attendees
  Implemented weekly online quizzes, increasing engagement of 1000+ students.
  Collaborated with 20+ communities, driving higher event registrations across partnerships.