Aryan Kumar Raj

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Computer Science undergraduate and full-stack developer with hands-on experience in building, deploying, and scaling modern web applications. Proficient in deploying backend services on **Amazon EC2 (Linux environments)** and hosting frontend applications on **Vercel** with production-ready configurations. Experienced in implementing **Firebase Authentication** for secure user access and managing end-to-end application workflows across frontend and backend systems. Strong foundations in backend APIs, cloud infrastructure, and system-level debugging, with a focus on delivering reliable, scalable full-stack solutions.

Projects

- **ShopperAI Website**- Developed a full-stack e-commerce application featuring AI-driven capabilities powered by Groq LLM for intelligent user interactions. Integrated Firebase Google Authentication for secure access and managed complex states for user profiles, carts, and order management.
  Tech: React, Express.js, Firebase, Groq LLM, Node.js.
- **TravoAI (Link)** - Developed and deployed a full-stack AI-based travel assistant using React (Vite) and Node.js (Express), hosted on AWS Cloud (EC2 Linux environment). Configured and managed Linux-based EC2 instances, handled server setup, environment variables, and backend deployment. Integrated Groq LLM (LLaMA 3.1) for natural language intent extraction and trip planning. Implemented REST APIs and managed production build for unified frontend-backend deployment.
  Tech: Node.js, Express.js, React (Vite), AWS (EC2), Groq LLM, JavaScript, TailwindCSS.
- **Portfolio Website (Link)** - Developed a modern, interactive portfolio using React.js and TailwindCSS, featuring a custom AI Chat Assistant powered by Groq's Llama-3 8B model. Integrated Firebase Firestore for real-time chat persistence and session management, along with EmailJS for direct messaging. Implemented responsive, theme-aware animations using GSAP and Framer Motion to drive high user engagement
  Tech: ReactJS, Tailwind, Groq SDK, Firebase Firestore, EmailJS

Experience

- **Frontend Developer – Proscon Automation and Training Institute** (1 June 2025 – 1 August 2025)
  - Maintained and enhanced the company website, resolving UI and performance-related issues.
  - Identified and fixed critical bugs, improving overall site stability and user experience.
  - Implemented performance optimizations that reduced website loading time by approximately 40%.

Skills

- **Programming Languages:** C++, C, Python, JavaScript.
- **Backend Development:** Express.js, Backend System Design.
- **API Development:** REST APIs, API Design, JWT Authentication.
- **Databases & Clouds:** PostgreSQL, MongoDB, Amazon EC2.
- **Tools:** Microsoft Excel, Microsoft PowerPoint, Microsoft Word.

Achievements

- Secured **3rd place among 100+ teams** at HackTech 2025, organized by Thapar Institute of Engineering and Technology, for building a production-ready technical solution.
- Maintained **long-term consistency** by participating in **100+ competitive programming contests**, achieving **4★ on GeeksforGeeks** and **1500+ rating on LeetCode**.

Education

- Bachelor of Technology (B.Tech) in Computer Science & Engineering, Rajasthan Technical University, Kota
  2022 - 2026