

Aditya Raj

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[GitHub](#)

Career Objective

- Computer Science undergraduate with strong foundations in full-stack development, DSA, and system-level programming.

Education

• Bachelor of Computer Applications

Bennett University

2023 – 2027

• XII, Science

Indian Public School

2022

• X

Goethals Memorial School

2020

Darjeeling, West Bengal (84.4%)

Experience

• Freelance Web Developer

- Built multiple full-stack web applications using React, Node.js, and Firebase.
- Worked on Linux system customization and low-level OS development using NASM and QEMU.
- Participated in hackathons solving healthcare, transportation, and agriculture domain problems.

Projects

• RoadRunner – Truck Transportation Platform

React, Node.js, MongoDB, YOLO

- Uber-like truck booking system with driver & user portals.
- Features include dual-driver support, pit stops, fog detection using computer vision.

• Krishi – Voice-based Job Portal

React, TypeScript, Whisper, Ollama

- Converts voice input to structured worker profiles using AI.
- Real-time transcription and JSON profile generation.

• Personal OS Development

NASM, QEMU, x86 Assembly

- Built custom bootloader and basic OS from scratch.
- Implemented screen output using BIOS interrupts.

• MacOS-Style Portfolio Website

React, Vite, TailwindCSS, GSAP, Zustand, Immer, React-Drivable, React-Tooltip

- Built an interactive macOS-inspired portfolio with animated UI and window-based navigation.
- Used GSAP for smooth transitions, Zustand + Immer for state management, and React-Drivable for movable windows.
- Implemented responsive design and performance optimizations using Vite + TailwindCSS.

• Music Player

Android, Kotlin, XML

- Built an Android app to play music.
- Plays music from device's storage
- Enabled playlist creation, shuffle mode, and sharing music over the internet.

Technical Skills

- **Languages:** C++, JavaScript, Java, Kotlin, x86 Assembly (basic)
 - **Core CS:** Data Structures & Algorithms, Object-Oriented Programming, Basic Operating Systems
 - **Frontend:** React.js, Next.js, Tailwind CSS, Vite
 - **UI / Animation & State:** GSAP, Zustand, Immer, React-Draggable, React-Tooltip
 - **Backend & Databases:** Firebase, Firestore, MongoDB, SQL, NoSQL
 - **State & Animation:** Zustand, Immer, GSAP
 - **AI / ML:** TensorFlow, OpenCV, Whisper, LLMs (Ollama)
 - **Tools:** Git, VS Code, Android Studio, WebStorm
 - **Deployment:** Vercel, Netlify, GoDaddy
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Extracurricular & Achievements

- Active participant in multiple hackathons and research hackathons, working on projects in healthcare, transportation, agriculture, and wireless power transfer domains.
- Built several end-to-end products independently, from system design to deployment (RoadRunner, Krishi, AI portfolio, OS dev).
- One of the few students in the batch using Arch Linux with a fully customized development environment (Hyprland, automation scripts, GPU optimization).

Hobbies

- Playing basketball at inter-college level
- Building side projects involving UI animations, operating systems, and AI systems
- Customizing Linux environments and experimenting with developer workflows
- Learning Spanish to improve global communication skills
- Exploring tech content, movies, and web series for creative inspiration