

Akhand Pratap Singh

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Education

University of Lucknow

Bachelor of Technology in Computer Science Engineering

Lucknow, India

2022 – 2026 (Current CGPA: 8)

Work Experience

Freelance Software Engineer – NIAT

Sep 2025 – Oct 2025

Remote

- Developed secure authentication and authorization modules using Supabase Auth.
- Implemented Retrieval-Augmented Generation (RAG) system to assist students with course queries.
- Integrated Supabase backend with Next.js frontend for seamless data flow and scalability.
- Collaborated with a 3-member team to deliver production-ready application adhering to data policies.

Projects

Issue Tracker

2024 – Present

Next.js 15, React, TypeScript, PostgreSQL, Drizzle ORM, Tailwind CSS

- Built modern issue tracking app with JWT authentication and real-time updates.
- Implemented full CRUD functionality, responsive UI, and dark mode.
- Integrated PostgreSQL via Drizzle ORM for type-safe database access.
- GitHub — Live Demo

AI Podcast Generator

2024

Node.js, Express.js, Google Generative AI, ElevenLabs API, Chrome Extension

- Developed Chrome extension to convert bookmarks into AI-generated podcast summaries.
- Used Google Generative AI for summarization and ElevenLabs for text-to-speech conversion.
- GitHub

Personalised Dashboard

Mar 2025 – May 2025

Next.js, NextAuth.js, Redux Toolkit, Tailwind CSS, Express.js, MongoDB

- Built a personalized dashboard with secure authentication using NextAuth.js and a secure Express API.
- Integrated JWT-protected routes, password hashing, and persistent dark mode preferences.
- Implemented category-based news feed (NewsAPI) and TMDB-powered movie recommendations.
- Used Redux Toolkit for real-time updates, and Tailwind CSS for a responsive, modern UI.
- GitHub — Live Demo

Certifications

Completed C++ Programming course covering OOP, Data Structures, Algorithms, etc.

Certificate Link

Technical Skills

Languages: C/C++, JavaScript, TypeScript

Web Development: Node.js, Express.js, React.js, Next.js, PostgreSQL, MongoDB

Operating Systems: Linux, Windows

Tools: Git