

# Ayushman

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## Education

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**ABES Engineering College**, Ghaziabad, Uttar Pradesh 2023 – 2027  
Bachelor of Technology in Computer Science and Engineering

- **CGPA:** 8 / 10
- **Relevant Coursework:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Database Management Systems (DBMS), Operating Systems (OS), Computer Networks (CN)

## Skills

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**Programming Languages:** C++, JavaScript (ES6+), TypeScript, SQL  
**Frameworks & Web Technologies:** React.js, Next.js, Node.js, Express.js, Tailwind CSS, Shadcn UI, Radix UI  
**Databases & CMS:** MongoDB, PostgreSQL (NeonDB), OracleDB, Strapi CMS, Cloudinary  
**Tools & Cloud Infrastructure:** AWS (Amazon Web Services), Vercel, Git, GitHub, Postman, VS Code  
**AI & Architecture:** REST APIs, Google Gemini API, Clerk, Arcjet, JWT Authentication, System Design, Git Flow

## Projects

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**AI Recipe Platform (Cook-With-Zavo)** [GitHub](#) [Live](#)

- **Architected** a full-stack AI recipe platform spanning **10 routes** across auth, dashboard, pantry, and recipe-discovery modules with **Next.js 16**, **React 19**, and **Shadcn UI**.
- **Engineered an AI recipe-generation pipeline** with the **Google Gemini API**, transforming raw pantry ingredients into structured recipes with instructions, nutrition, and substitutions.
- **Designed 3 custom content types** (recipes, pantry items, saved recipes) in a **Strapi headless CMS** backed by **Neon DB (serverless PostgreSQL)**, synced to **Clerk** for subscription-tier access control.
- **Hardened backend API routes** with **Arcjet** middleware for bot detection and rate limiting, layered with **Clerk-protected routes** and **JWT-based session validation**.
- **Built a print-ready PDF export pipeline** with **@react-pdf/renderer** and integrated **TheMealDB API** for category- and cuisine-based recipe discovery.

**AI Thumbnail Generator (Thumblify)** [GitHub](#) [Live](#)

- **Architected** a full-stack **TypeScript MERN (MongoDB, Express, React, Node.js)** application that generates multiple AI thumbnail variations from a single text prompt.
- **Engineered an AI-assisted thumbnail generation workflow** using the **Gemini API**, producing multiple thumbnail concepts and prompt variations from a single user input.
- **Implemented secure JWT-based authentication**, covering sign-up, login, and server-side session validation to protect user accounts and generation history.
- **Optimized asset delivery** using **Cloudinary CDN** for images and **MongoDB** for user metadata, minimizing server-side load.
- **Built centralized async API state management** with error boundaries, streamlining high-resolution thumbnail downloads and reducing redundant requests.

## Achievements & Extracurriculars

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- Achieved a **1825+ contest rating and 300+ problems solved on LeetCode**, reflecting consistent performance in competitive programming contests.
- Attained **1550+ contest rating and 2★ rating on CodeChef**, showcasing competitive problem-solving ability.
- Earned **Intermediate Problem Solving certification on HackerRank**.
- Achieved **5★ in C++ on HackerRank**, demonstrating strong proficiency in C++ and STL.