

ANSH PACHAURI

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Summary

Aspiring Software Engineer with a strong foundation in Data Structures, Algorithms, and Object-Oriented Programming. Proficient in backend technologies such as Node.js, Express.js, and RESTful APIs, with experience in deploying scalable applications using PostgreSQL, MongoDB, and cloud platforms like AWS and Docker. Developed and deployed applications leveraging Generative AI and cloud services, aiming to contribute to innovative software solutions.

Education

Dr. A. P. J. Abdul Kalam Technical University

Nov 2022 - Jun 2026

B.Tech, Computer Science and Engineering

- **Coursework:** Data Structures, Algorithms, OOPS, DBMS, Operating System, Software Engineering

Technical Skills

- **Languages:** C, Java, Python, JavaScript, TypeScript
- **Frontend:** HTML, CSS, Tailwind CSS, React.js, Next.js
- **Backend & APIs:** Node.js, Express.js, WebSocket, CI/CD, Socket.IO, RESTful APIs
- **Databases & ORMs:** MongoDB, PostgreSQL, MySQL, Prisma ORM, Supabase
- **AI/ML & Cloud:** Generative AI, Langchain, AWS
- **Developer Tools:** Git, GitHub, Docker, Postman, Vercel, AWS, Visual Studio Code

Projects

Shadow Marketing LLC | [Demo](#)

- Developed a marketing platform delivering digital services to clients, with a robust, component-based UI built using React.js and Tailwind CSS to ensure high performance and accessibility.
- Enhanced user experience and optimized routing, resulting in a 30% reduction in bounce rate through targeted UI improvements.
- Integrated automated email notifications by connecting Google SMTP with Nodemailer, achieving reliable delivery of over 50 emails per day.
- Engineered backend services using Express.js APIs to efficiently handle more than 200 daily user interactions.

Dream Wave | [Demo](#)

- Architected and launched a scalable AI image generation platform leveraging Next.js, implementing secure JWT token.
- Developed robust API routes in Next.js to support user validation, session management, and high-performance image request handling.
- Designed and maintained a relational user database using PostgreSQL and Prisma; structured the application with Turborepo to enable scalable monorepo development.
- Integrated the Stability AI API, efficiently processing over 100+ image generation requests per day based on user prompts.
- Crafted a responsive and accessible UI with Tailwind CSS and Aceternity UI, resulting in a 25% increase in average user session time.

YT Transcript Assistance | [Demo](#)

- Developed a Chrome extension with React and FastAPI backend that automated transcript extraction from YouTube videos, reducing manual note-taking time by 80% for users.
- Implemented AI-powered semantic search and summarization using LangChain + LLM embeddings, improving query accuracy and video content accessibility by 70% compared to keyword-only search.
- Engineered a fault-tolerant transcript retrieval system with fallback methods (YouTube Transcript API), achieving 95% transcript availability even under API restrictions or IP blocking.

Solagig | [Demo](#)

- Built a decentralized platform for image reviews and payments, implementing a scalable monorepo architecture with Turborepo, Next.js for the frontend, and Express.js backend services.
- Integrated Solana blockchain and web3.js to enable secure image uploads and facilitate over 50 decentralized payment transactions.
- Designed and managed user and transaction data using PostgreSQL and Prisma, ensuring efficient data integrity and access.
- Developed seamless, secure image upload workflows to AWS S3, handling more than 200 user submissions.
- Crafted a visually appealing and responsive user interface with ShadCn UI components and Tailwind CSS.

Certifications

- S.O.L.I.D Principles Every Developer Must Know