ARYAN PATEL

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EDUCATION

Dr. A.P.J. Abdul Kalam Technical University　　　　　　　　　　**Sep 2023 – Jun 2027**
B.Tech - Computer Science Engineering - **CGPA**: 7.2

EXPERIENCE

PwC India – Launchpad Program (CDTR – Python)　　　　　　　**Feb 2026 – Jul 2026**
Technology Trainee
- Selected for PwC's 6-month Launchpad CDTR program with a focus on Python and enterprise technology.
- Training in Python, Generative AI, modern data systems, and cybersecurity fundamentals.
- Learning data risk, technology risk, and consulting-oriented problem-solving approaches.
- Developing professional soft skills including communication, teamwork, and analytical thinking.

PROJECTS

PostBoy ⌘ | Next.js, Better Auth, Prisma, TanStack Query, Zustand, AI　　**Oct 2025**
- Engineered a developer-focused API testing platform supporting REST and WebSocket protocols for real-time request handling and monitoring.
- Implemented dynamic WebSocket testing using Zustand with lifecycle management, auto-reconnect logic, and persistent message history.
- Incorporated AI-based JSON generation to automatically create request payloads, improving testing efficiency and accuracy.

Feedback App ⌘ | Next.js, TypeScript, MongoDB, Tailwind CSS, NextAuth　　**Apr 2025**
- Developed a full-stack feedback management platform to allow real-time feedback submissions and viewing.
- Implemented authentication and authorization using NextAuth for secure user login and session management.
- Designed and implemented a modern, responsive UI using Tailwind CSS to enhance user experience.

School Management System ⌘ | MongoDB, Express.js, React, Node.js, Tailwind, JWT　**Sep 2025**
- Developed a full-stack school management application with separate logins for Admin, Teacher, and Student.
- Implemented Admin functionalities to manage classes, subjects, teachers, students, attendance, and marks.
- Enabled Teachers to record attendance and assign marks, while Students can view their performance and attendance.

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript, TypeScript, SQL
Web Technologies & Frameworks: React, Next.js, Express.js, HTML, CSS, Tailwind CSS
Databases & Backend: Node.js, MongoDB, PostgreSQL
ORM & Tools: Prisma, Mongoose
Other Technologies: WebSocket, Git/GitHub, Docker
CS Fundamentals: Object-Oriented Programming (OOP), Operating Systems, DBMS
Problem Solving: Solved 500+ DSA problems

BLOGS

Machine Coding on Prototype | JavaScript, Prototypes, Array Methods
- Implemented custom versions of core JavaScript array methods like forEach, map, filter, reduce, and find to handle an error assumption where the built-in functions do not exist.
- Explored the internal workings of JavaScript's prototype chain and callback mechanics by creating functions that replicate the behavior of built-in methods.

RAG Working(Retrieval Augmented Generation) | GenAI, RAG, Vector Databases, Embeddings
- Explained the complete working of Retrieval-Augmented Generation (RAG) from data ingestion to final LLM response.
- Covered key components including chunking, embeddings, vector databases, similarity search, and context-based answer generation.
- Demonstrated how RAG reduces hallucinations and enables LLMs to generate responses grounded in custom or private data.