ABHINAV DIXIT

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Summary

Computer Science Engineering student (5th semester) at Nirma University. Skilled in C/C++, Java, JavaScript, React, Node.js, and Python. Passionate about building impactful software solutions through hands-on projects. Strongly interested in AI-agent development (leveraging Model Context Protocol, MCP) and CI/CD pipelines. Experienced in web development, system simulations, and intelligent automation.

Technical Skills

- **Programming Languages:** C/C++, Java, JavaScript, Python
- **Web Technologies:** React, Tailwind CSS, Node.js
- **Other Skills:** Software Development, Web Development, Game Development, AI Agent Development (MCP), API Integration, CI/CD Pipelines, NLP, OpenCV

Education

Nirma University, Institute of Technology — Jul 2023 – Jun 2027
B.Tech in Computer Science and Engineering — CGPA: 8.81 — *5th Semester*

Amicus International School (CBSE) — 2022
Class 12th — Science — Percentage: 96%

Amicus International School (CBSE) — 2020
Class 10th — Percentage: 95.5%

Projects

2D Java Adventure Game
- Developed a 2D adventure game where the player collects keys to unlock doors.
- Strengthened understanding of game loops, rendering, and entity interactions.

Operating System Simulation (Web-based)
- Built a React-based CPU scheduling simulator for visualizing process switching.
- Implemented algorithms such as FCFS, SJF, and Round Robin scheduling.

AI-Powered Conversational Assistant
- Developed an intelligent conversational AI using Node.js and Google's Gemini AI model.
- Integrated Model Context Protocol (MCP) for context-aware and persistent interactions.
- Enabled automated file operations (read/write) and YouTube video playback.

AutoTestPilot — HackNuthon 6.0 (RapidOps Track, Nirma University)
- Developed an AI-powered test automation agent using React, Node.js, and Gemini API.
- Analyzed Figma designs to auto-generate test plans and cases.
- Integrated GitHub Actions for CI/CD pipelines in a 4-member team project.
- Achieved **6th Place** in HackNuthon 6.0 RapidOps Track.

Achievements/Position of responsibility

- GDG Core Member (Google Developer Group).
- Winner of Maverick Effect AI Challenge 2025.
- Top 10 finalist in Rapido's Track HackNuthon 2025.