Kunal Pratap Singh

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Education

G.L Bajaj Institute of Technology and Management

November 2022 – August 2026

Bachelor of Technology in Computer Science

Greater Noida, Uttar Pradesh

Professional Summary

A Computer Science student with a strong foundation in software engineering, machine learning, and full-stack development. Experienced in designing and building scalable, data-intensive applications. Successfully created award-winning projects, earning top placements in competitive hackathons. Eager to apply technical skills within an engineering team to tackle meaningful challenges and drive technological innovation.

Experience

Hopscotch Games

August 2025 - Present

AI Developer

Remote

- Architected advanced prompt chaining and context management strategies for a multi-LLM backend, minimizing context rot and reducing generative hallucinations by over 50% in complex game creation workflows.
- Implemented significant performance improvements for the browser-based generative engine, cutting memory consumption by 25% and increasing the success rate of complex, multi-asset game generation by 40%.

Big Startups Network

January 2025 - August 2025

Software Developer Intern

Noida, Uttar Pradesh

- Restructured and deployed scalable backend services for a data-intensive application, improving overall system throughput by 15% in a GCP environment.
- Collaborated and documented robust RESTful APIs using FastAPI to serve machine learning models, achieving 99.5% uptime and handling over **5,000** daily requests.
- Enhanced deployment efficiency by 10% through automation of testing processes, while also decreasing production bugs by 20% by conducting peer code reviews and providing mentorship.

Projects

Synapse: AI-Powered Supply Chain Platform | Python, React, FastAPI, 3D Vis, ML

June 2026

- Engineered a full-stack, AI-powered supply chain platform using React and FastAPI, featuring an interactive 3D visualization layer that reduced data analysis time for users by 35%.
- Implemented a predictive analytics pipeline using Python that achieved 91% demand forecasting accuracy, directly enabling a "self-healing" system to cut potential stockout events by 20%.

MediBud AI: Medical Chatbot & Report Analyzer | Python, LLMs, LangChain, NLP, Generative AI May 2025

- Streamlined a scalable backend with an **NLP** pipeline to process unstructured medical records, slashing data retrieval times by 50% and improving data accessibility by 40%.
- Deployed a Generative AI conversational agent using LangChain; this reduced average query resolution time by 30 seconds, boosting user satisfaction scores by 8 points on post-interaction surveys.

Zentigrity: AI and Blockchain for Governance | TypeScript, Python, Solidity, Next.js, System Design

April 2025

- Spearheaded an end-to-end decentralized system combining a Next.js dashboard with a Python AI agent and Solidity smart contracts, achieving a 30% reduction in data validation latency.
- Secured 3rd position in the Supernova Hackathon (1400+ teams) for a novel civic technology application, receiving positive feedback from 10+ judges and driving 75+ user registrations during the event.

DermaScope: Skin Cancer Detection using CNN | Python, PyTorch, Flask, CNN, React.js

March 2025

- Innovated a full-stack deep learning solution with PyTorch and Flask, delivering a 93% classification accuracy on the ISIC dataset while maintaining API response times under 300ms.
- Awarded 'Best Theme' prize among 1000+ teams at the SGU Hackathon, recognizing the project's significant social impact and its seamless user experience design.

Technical Skills

Languages: Python, Java, C++, JavaScript, TypeScript, SQL, Solidity

Backend Development: Node.js, Flask, FastAPI, Spring Boot, REST APIs Frontend Development: React, Next.js, JavaScript, HTML/CSS, Svelte

AI and Machine Learning: PyTorch, TensorFlow, Scikit-learn, LLMs, LangChain, NLP (spaCy, NLTK), OpenCV

Core CS and Systems: Data Structures, Algorithms, OOP, Design Patterns, System Design, Scalability DevOps and Databases: Docker, Git, GCP, AWS (Familiar), Kubernetes, PostgreSQL, MongoDB