

# Kartik Bansal

## Software Engineer



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Aspiring Software Engineer with full-stack development experience. Passionate about building innovative applications that solve real-world problems. Eager to learn, collaborate, and contribute to impactful software solutions.

### Skills

- Python
- Java
- SQL
- MongoDB
- React.js
- Git
- Express.js
- FastAPI
- OpenCV

### Work History

#### Software Engineer Intern

Dec- 2025- current

#### Bigfat AI- Noida

- Build full-stack apps with a Python FastAPI backend and React front end, with clean and reliable APIs.
- Create server-side features that handle data, logic, and databases while working in a team using version control and reviews.

### Projects

#### AI Proctor System

- Developed automated monitoring system detecting face anomalies, head movements, multiple persons, and prohibited objects using OpenCV, Mediapipe, and YOLO, reducing manual supervision by 70%.
- Built admin dashboard with real-time violation tracking, leaderboards, and manual flagging capabilities with MongoDB logging.

#### Linked List Visualizer (React.js, JavaScript, HTML/CSS)

- Built interactive visualization tool for linked list operations (insert, delete, search) with real-time animations using React state management
- Designed modular architecture enabling seamless extension to additional data structures.

#### Personal Portfolio Website (React, Vite, Tailwind CSS, Framer Motion)

- Developed responsive portfolio with complex UI animations using Framer Motion and custom Tailwind CSS dark-mode design.
- Integrated serverless contact form with Web3Forms for real-time delivery, deployed on Vercel with secure environment management.

### Certificate

#### Node.js (Scaler)

25 - jan - 2026

- Completed Node.js certification from Scaler covering backend development, REST APIs, Express.js, and database integration.

#### Python (Infosys Springboard)

8 - jan - 2025

- Earned Python programming certificate from Infosys Springboard with focus on core concepts, data structures, and application development

### Education

#### Bachelor of Technology

2024- 2027

GLA University - Mathura

#### Gyan Deep Shiksha Bharati

2023

Mathura (CBSE)-XII