Granth Sidhant Yadav

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# Objective

Final-year BCA student at IGNOU with a solid foundation in C++, database systems, and simulation design. Actively seeking an internship opportunity where I can contribute to real-world defense-related software projects. Highly adaptable, passionate about applied learning, and proficient in understanding and applying core technical concepts, especially in AI-aligned tasks and simulation logic.

# Education

Bachelor of Computer Applications (BCA)  
Indira Gandhi National Open University (IGNOU)  
Final Year

# Technical Skills

- Programming: C++, Java, JavaScript, TypeScript (basic)   
- Frontend: HTML5, CSS3, React.js, Tailwind CSS, Bootstrap  
- Backend: Java Servlets, JDBC, PHP  
- Database: MySQL, MongoDB, SQLite  
- Tools: Git, GitHub, VS Code, Eclipse, Apache Tomcat  
- Concepts: AI familiarity, Physics simulation principles, REST APIs, Responsive Design

# Relevant Project - Car Physics Simulation (Case Study)

• Designed a database schema, system flow diagram, and code architecture for a car physics simulation using Unity and C++.  
• Demonstrated knowledge of acceleration, friction, suspension, and real-world vehicle behavior modeling.  
• Created simulation logs and collision event tracking system for realistic testing and performance analysis.  
• Delivered a structured implementation plan, benchmarking against arcade and realistic game engines.  
• Prepared detailed printed report and documentation for defense-oriented simulation project discussion.

# Other Projects

• St Lucia Medical Centre – Healthcare web app with appointment and payment integration.  
• Heritage Bank Web App – Net banking simulation with secure transactions.  
• Netflix & Amazon Clones – Feature-rich UI development using React.  
• Weather App – Real-time weather dashboard using JS and APIs.  
• To-Do List – CRUD-based task manager with local storage.

# Strengths

• Quick at learning and implementing new concepts  
• Friendly with AI-related tasks and eager to explore machine learning in future projects  
• Strong communication skills with fluency in English  
• Reliable and consistent team player with independent problem-solving ability  
• Strong motivation to contribute in real-world, high-impact software environments