SIDDHARTH KUMAR JHA

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EDUCATION

Bachelor of Technology in Computer Science   **Aug 2025 - May 2029 (Expected)**
Dr Akhilesh Das Gupta Institute of Professional Studies
First Year Student focused on **Systems Programming**, Low-Level Control, and Mobile Application Development.
Relevant Coursework: Data Structures, Algorithms, Operating Systems, Network Fundamentals (Project-based)

TECHNICAL SKILLS

- **Languages: C** (Proficient), Dart, Python
- **Frameworks/Tools:** Flutter, Firebase (Firestore, Cloud Functions), Git, Linux/Unix CLI, Neovim, GDB
- **Concepts:** Socket Programming, Systems Integration, File I/O, REST APIs, JSON Parsing (C)
- **Focus Areas:** Cybersecurity (CTF/Reverse Engineering), Systems Programming, Network Programming, Low-level Programming

PROJECTS

Secure QR Gateway   *Flutter, Firebase, Python*   Oct 2025 - Present

- Engineered a mobile QR scanner (**Flutter**) to detect phishing and malware links before navigation.
- Integrated the **Google Safe Browsing API** for real-time URL threat analysis.
- Implemented a **Firestore** caching layer to optimize performance and reduce repeated API calls.
- Developed the full-stack solution using a Flutter frontend and secure **Firebase Cloud Functions** backend.

Ingres Chatbot   *C, Network Programming*   Sep 2025

- Developed a conversational chatbot with an **HTTP client built entirely from scratch in C**.
- Utilized **socket programming** and custom **JSON parsing** in C, bypassing external libraries to showcase low-level protocol mastery.

Voice Assistant (Desktop)   *C, System Integration*   Aug 2025

- Built a local desktop assistant with native speech recognition and text-to-speech capabilities.
- Leveraged **system calls** for efficient cross-process communication and external tool integration.

Student Database Management System   *C*   Jul 2025

- Designed and implemented a terminal-based **CRUD** application for student record management.
- Implemented **file I/O** in C for persistent data storage, demonstrating systems-level control.
- Created a robust, menu-driven interface with input validation.

ACHIEVEMENTS & ACTIVITIES

- **Open Source Contributor:** Made many of my projects open source and recieved outreach from AutoMQ maintainers for future contributions
- **CTF Enthusiast:** Actively solving **OverTheWire Bandit challenges** to develop practical security and Linux command line skills, supporting interests in ethical hacking.
- **Hackathon Participant:** Regularly participating in technical hackathons to rapidly apply and expand programming skills.
- **Self-taught Developer:** Built multiple production-ready projects through independent learning.

ADDITIONAL INFORMATION

- **Languages:** English (Fluent), Hindi (Native)
- **Interests:** Low-level Programming, Ethical Hacking, Reverse Engineering, Open Source Development.