Ishaan Kashiv

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Objective

Aspiring software engineer with strong foundations in Python, Networking, and Full-Stack Development. Experienced in designing secure client-server applications and community-driven platforms. Passionate about building scalable systems and solving real-world problems through software.

Technical Skills

- Languages: Python, Java, JavaScript, C/C++
- Frameworks & Tools: Flask, Socket Programming, Git, SQL
- Web Development: HTML, CSS, JS, REST APIs
- Databases: DBMS concepts, SQL, Normalization, Transactions, Query Optimization
- Networking: TCP/IP, Socket Programming, Multi-threaded Architecture
- Security: Encryption, Decryption, Hashing (SHA-256), Encoding/Decoding,
- Other Skills: Data Structures & Algorithms, OOP, Software Design

Projects

Secure Chat Application (Client–Server Architecture)

- Designed and implemented a secure multi-threaded chat system using Python sockets for real-time communication.
- Built user authentication system with registration, login, and error handling (e.g., wrong password, user offline).
- Implemented message security through encryption, decryption, encoding, decoding, and hashing (SHA-256).
- Developed offline message delivery by queuing and sending pending messages when users reconnect.
- Designed server-side data management to maintain active sessions, login status, and client socket connections.

Tech Used: Python, TCP/IP, Multi-threading, Cryptography, Data Structures

Book Sharing & Community Application (In Progress)

- Designing a cross-platform application (iOS, Android, Web) to allow users to borrow, lend, and search for books.
- Features include book uploads, search and filter options, community-based sharing, and

request/approval workflow.
- Implementing secure transactions with lending/borrowing management, availability toggling, and reminders.
- Users can join communities, post book availability, and track requests with notifications.

Tech Used: Python (backend design), Database design, Regex validation, REST-like communication

Workflow & System Design Contributions

- Authored Software Requirement Specification (SRS) and Software Design Specification (SDS) for projects, covering architectural design, security constraints, and workflows.
- Proposed modular system design for scalability and reusability across server–client modules.
- Documented data handling, security measures, and communication protocols for robust application performance.

Education

B.Tech – Computer Science (3rd Year)
VIT University, Bhopal, 2027

Relevant Coursework: Computer Networks, Database Management Systems, Data Structures & Algorithms

Certifications & Courses

- Bits and Bytes of Computer Networking (Google)
- IBM Generative AI Course

Achievements

- Solved [50+] Data Structures & Algorithm problems on platforms like LeetCode, Codeforces, GFG.
- Completed multiple end-to-end software projects, from documentation (SRS, SDS) to implementation.
- Active contributor on GitHub with project repositories.

Extra

- Strong team player with experience in group-based application design & documentation.