SHREYANSH PATEL

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TECHNICAL SKILLS

- Languages: C++, Python, Java
- Systems: concurrency, inter-process communication, performance debugging
- Backend: REST APIs, scalable service design, SQL (MySQL, PostgreSQL)
- Infrastructure: containerized development, CI/CD fundamentals
- Strengths: problem solving, clean architecture, fast learning, clear communication

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant, Cleveland State University, OH   **Aug 2025 – Present**
- Guided students through concurrency, memory behavior, and debugging practices, strengthening foundations in systems-level problem solving.
- Led architecture reviews and design discussions that improved overall project quality by 15%.
- Delivered clear, actionable technical feedback to 30+ students, driving a 20% increase in engagement and code clarity.

Geospatial Software Engineer, Preppers Infotech, Ahmedabad, india   **Jun 2023 – Nov 2023**
- Built high-performance 3D visualization features for 50K+ users, improving responsiveness and reliability across core product modules.
- Designed scalable data pipelines for large geospatial datasets, increasing throughput by 20%.
- Created reusable asset libraries and validation tools that accelerated feature development and reduced integration issues.

Software Engineering Intern, CodeCrew Infotech, Ahmedabad, india   **Jan 2022 – Apr 2022**
- Developed an OCR automation system that increased document-processing throughput by 30%+.
- Optimized backend service flows, reducing latency by 25% and operational errors by 40%.
- Improved reliability through structured debugging, stronger validation, and failure-mode testing.

EDUCATION

Master of Science in Computer Science (GPA: 3.88/4)   **Expected Graduation: Dec 2025**
Cleveland State University, Cleveland, Ohio

Bachelor of Engineering in Computer Engineering   **Graduation: Jun 2022**
Gujarat Technical University, India
- **Relevant Coursework (Graduate & Undergraduate):** Data Structures, Mobile Application Development, Machine Learning, Artificial Intelligence, Analysis of Algorithms, Advanced Operating Systems, Web Programming, Information Security

PROJECTS

- **Distributed IPC Messaging Engine • C++**

Built a multi-process messaging system using System V queues, semaphores, and shared memory. Improved synchronization reliability and added debugging traces to diagnose race conditions and performance behavior.

- **OpenSSL Secure Communication Toolkit • Linux**

Compiled OpenSSL from source and automated RSA key and certificate workflows. Created a reproducible encryption/decryption demo with validation of certificate chains and secure channel behavior.

- **Privacy Shield Browser Extension • Swift & JavaScript**

Developed a Safari extension to block trackers with low-overhead request filtering. Added structured event logging and an analytics view to visualize blocked traffic patterns.

- **FriendBook Contact System • SQL**

Designed a normalized ER schema and backend logic for scalable contact management. Implemented stored procedures and indexing for efficient CRUD operations on large contact sets.