

# ANSH MANISHKUMAR SONI

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## EDUCATION

**Pandit Deendayal Energy University (PDEU)**, Gandhinagar, Gujarat July 2023 – May 2027  
Bachelor of Technology in Computer Engineering | Minor: Internet of Things (IoT) **CGPA: 9.48/10.0**  
*Reliance Foundation Undergraduate Scholarship Recipient (2023–2027)*

## TECHNICAL SKILLS

**Languages:** C++, Python, SQL  
**Backend:** FastAPI, Django, REST APIs  
**Frontend:** React.js, Tailwind CSS, HTML5  
**Databases:** PostgreSQL, Redis  
**DevOps & Cloud:** Docker, AWS  
**Developer Tools:** Git, Postman

## PROFESSIONAL EXPERIENCE

**Backend Development Intern** | StromDrive Private Limited Dec 2025 – Jan 2026

- Developed secure backend subsystems for a cloud storage platform using FastAPI, PostgreSQL, and Python, focusing on scalability, JWT-based authentication, and request rate limiting for API protection.
- Designed a secure file storage backend with server-side encryption using standard cryptographic libraries and implemented request validation and monitoring mechanisms to enhance platform security.
- Built a comprehensive Pytest test suite to validate backend functionality and ensure reliability across all subsystems.

**Web Development Intern** | Nexus Info Private Limited Jul 2024 – Aug 2024

- Developed and deployed responsive landing page components using HTML5 and CSS, reducing page load inconsistencies across 3 browsers.
- Revamped UI layout and visual hierarchy, directly improving navigation flow and reducing user drop-off on key conversion pages.

## TECHNICAL PROJECTS

**PythonSTL – Open-Source Python Library (3,000+ Downloads)** | [GitHub](https://github.com) | [PyPI](https://pypi.org) Feb 2026

- Published and actively maintain an open-source Python library replicating C++ STL containers (Stack, Queue, Vector, Set, Map, Priority Queue) using OOP principles and the Facade Design Pattern.
- Integrated a Rust backend via PyO3/Maturin FFI, implementing STL algorithms including permutations, partitioning, Quickselect, and optimized binary search, delivering up to **7.5x performance improvements**.
- Improved algorithmic efficiency by reducing Quickselect complexity from  $O(N^2)$  to  $O(N)$ , documented time complexities, and ensured reliability through **81 Pytest test cases**.

**LinkLite – URL Shortener Service** | [GitHub](https://github.com) | [Live](https://linklite.com) Mar 2026

- Built a responsive URL shortener platform utilizing a **FastAPI** backend and **React.js** frontend, generating unique short codes and tracking client analytics (IP, User-Agent).
- Engineered a highly optimized caching strategy by storing structured JSON payloads in **Redis** and decoupling click tracking writes from the main request cycle using **FastAPI BackgroundTasks**, achieving a **58% reduction in median redirect latency** (down to 5.22 ms).
- Containerized and orchestrated the full stack (backend, frontend, PostgreSQL, and Redis) using **Docker Compose** to facilitate local development, deploying the cloud application on **Render**.

**Disee – Distributed Query Processing Engine** | [GitHub](https://github.com) | [Live](https://disee.com) Jan 2026

- Designed and implemented a **Gateway-Worker** distributed search engine in **FastAPI** and **Docker**, enabling parallel query fan-out across multiple isolated worker containers with centralized result aggregation.
- Integrated real-time data fetching from **Wikipedia** and **StackOverflow** APIs; partitioned content into distributed chunks processed concurrently using **HTTPX** and **asyncio**, eliminating blocking I/O across all node communication.
- Scaled the architecture across **3 phases** – standalone inverted index, Dockerized multi-node cluster, and static multi-machine deployment – with a React + Tailwind + Framer Motion frontend modeled after Google Search UX.

## ACHIEVEMENTS & HONORS

- AWS Cloud Quest – Solutions Architect Learning Path** (Amazon Web Services)
- GirlScript Summer of Code 2026 Contributor – Ranked **#5449** out of 45,000+ participants (Top 13%), with 5 PRs raised and 2 successfully merged
- Zonal Finalist, NASA Space Apps Challenge 2025, Nirma University, Gujarat, India
- Received Excellence Award in Co-curricular Activities by Pandit Deendayal Energy University, Gujarat, India
- Awarded Silver Certification in NPTEL “Human Computer Interaction (HCI)” course by IIT Delhi
- HackerRank Certified** in Basic Problem Solving (C++) and achieved 5-Star Rating in Python on [HackerRank](https://leetcode.com/u/XYZ2005)